



CITY OF BURLINGTON

Administration Department
300 N. Pine Street, Burlington, WI, 53105
(262) 342-1161 - (262) 763-3474 fax
www.burlington-wi.gov

AGENDA COMMITTEE OF THE WHOLE

Wednesday, April 4, 2018

6:30 p.m.

Common Council Chambers, 224 East Jefferson Street

Mayor Jeannie Hefty
Susan Kott, Alderman, 1st District
Edward Johnson, Alderman, 1st District
Bob Grandi, Alderman, 2nd District
Ruth Dawidziak, Alderman, 2nd District
Tom Vos, Alderman, 3rd District
Jon Schultz, Council President, Alderman, 3rd District
Thomas Preusker, Alderman, 4th District
Todd Bauman, Alderman, 4th District

Student Representatives:

Gabriel King, Burlington High School
Jack Schoepke, Burlington High School

1. **Call to Order - Roll Call**
2. **Citizen Comments**
3. **Approval of Minutes** *(T. Preusker)*
 - A. Approval of the March 20, 2018 Committee of the Whole meeting minutes.
4. **RESOLUTIONS:**
 - A. **Resolution 4897(55)** - to approve a contractual arrangement in which the Tri-County Fire and Rescue Association, Inc. wishes to enter into with Scherrer Construction and American Fire Training Systems, Inc.
 - B. **Resolution 4898(56)** - to consider approving the award of bid for a generator and the removal of the old generator for the City of Burlington Police Department to Peck & Weis Inc. in the amount of \$65,304.00.
5. **ORDINANCES:** There are none.
6. **MOTIONS:**
 - A. **Motion 18-894** - to approve a Separation Agreement, Waiver and Release between the City of Burlington and City of Burlington Police Department employee, Kim Hardesty.

B. **Motion 18-895** - to approve an Airport Hangar Lease with Chadd Hartwig for 940 Bravo Taxiway, at the Burlington Municipal Airport.

7. **ADJOURNMENT** (*T. Bauman*)

Note: If you are disabled and have accessibility needs or need information interpreted for you, please call the City Clerk's Office at 262-342-1161 at least 24 hours prior to the meeting.



COMMITTEE OF THE WHOLE

ITEM NUMBER 3A

DATE: April 4, 2018

SUBJECT: Committee of the Whole Minutes for March 20, 2018.

SUBMITTED BY: Diahnn Halbach, City Clerk

BACKGROUND/HISTORY:

The attached minutes are from the March 20, 2018 Committee of the Whole meeting.

BUDGET/FISCAL IMPACT:

N/A

RECOMMENDATION:

Staff recommends approval of the attached minutes from the March 20, 2018 Committee of the Whole meeting.

TIMING/IMPLEMENTATION:

This item is scheduled for final consideration at the April 4, 2018 Common Council meeting.

Attachments

COW Minutes



CITY OF BURLINGTON
Committee of the Whole Minutes
Jeannie Hefty, Mayor
Diahnn Halbach, City Clerk
Tuesday, March 20, 2018

1. Call to Order/Roll Call

Madam Chair Ruth Dawidziak called the meeting to order at 6:30 p.m. starting with roll call. Aldermen present: Ed Johnson, Bob Grandi, Tom Vos, Tom Preusker and Todd Bauman. Excused: Mayor Hefty, Aldermen Susan Kott and Jon Schultz.

Student Representatives Present: Gabriel King, Jake Schoepke. Excused: None

Also present: City Administrator Carina Walters, City Attorney John Bjelajac, Finance Director Steve DeQuaker, Director of Administrative Services Megan Watkins, Police Chief Mark Anderson, Fire Chief Alan Babe, DPW Director Peter Riggs, Kapur & Associates Gregory Governatori and Building Inspector Gregory Guidry.

2. Citizens Comments

Jennifer Greeter, 32400 Yahnke Road, Burlington, stated she is part of the expansion coming forward out of the bypass area and questioned if her property was a concern or is seen as a problem staying in the township with the other neighbors annexing into the city. Attorney John Bjelajac reminded her this section is only for comments and not answers. Administrator Carina Walters stated they can discuss it later this week. Preusker stated that at the previous meeting they were looking for clarification that an island cannot be created with the annexation. Dawidziak asked if Ms. Greeter was concerned about future forced annexation. Ms. Greeter responded yes, because she would like to stay in the town and for her husband to continue hunting and to keep their horses.

3. Approval of Minutes from March 6, 2018

A motion was made by Alderman Grandi with a second by Alderman Johnson to approve the minutes from the March 6, 2018 Committee of the Whole meeting. With all in favor, the motion carried to approve the minutes.

4. Resolutions:

A. Topic: Resolution 4892(50) – to adopt an intergovernmental agreement and ground lease between the City of Burlington and the Tri-County Fire and Rescue Association Inc.

Fire Chief Al Babe presented Resolution 4892(50). Babe explained that Tri-County Fire and Rescue Training Association asked for a training building. A contract and a ground lease agreement has been signed by the Town of Burlington, Town of Wheatland and Rochester.

Babe stated the City of Burlington is allowing the building to be located near the DPW property, but are still waiting for a few more approvals. The contracts have been drafted by Brian Wanasek and Bjelajac. Bjelajac stated he is comfortable with both agreements.

Bauman questioned if both Babe and Riggs agree to this location being next to the salt storage facility and waste transfer site. Riggs stated there is a large stone pad that separate the buildings, and is comfortable with the location. Grandi was concerned there may be some debt taking on this project. Babe stated the Association as a group will go to Fox River State Bank for tendering a loan of \$180,000 for the building, construction firm and management process, plus a little extra for storage. Bjelajac stated the City of Burlington is well protected, there is no debt or mortgage on the property, and it is funded through the fire companies.

Grandi questioned Babe that it states in section 4.05 of the agreement a party can withdraw from this agreement with a 60 day notice and it does not mention anything about the party being responsible for the debt if withdrawn. Babe stated it was discussed and added at the last minute that the initial payment will not be refunded. The party will be able to get only part of the money back after the third year.

Vos stated the land is being leased from the City of Burlington and asked if there is language in the agreement that every four years it can be renewed. Bjelajac replied that it is subject to discussion, it is a four year lease and has to wait until the four years to be able to be renewed, otherwise the facility can be relocated.

Bauman asked who the landlord is and who is responsible for the site and liability issues if someone gets injured. Bjelajac replied the City of Burlington is the landlord. Babe answered the Tri-County Association is responsible. Bjelajac stated the City of Burlington insurance already covers this liability, but each municipal department is responsible.

B. Topic: Resolution 4893(51) to approve the Award of Bid for the Lewis Street Wall Project to All-Ways Contractors for the Total Amount of \$257,975.

DPW Director Peter Riggs presented Resolution 4893(51). Riggs explained the wall is located at the intersection of James Street and Lewis Street. In 2017 a capitol project was funded of \$250,000 to repair the wall. The lowest bid from a design came back well in excess of \$250,000, which was rejected. Even though the next bid of \$257,000 was still over the budgeted amount, an adjustment was made to the design from a 2-tiered wall structure to a single-tiered wall structure with no major impacts on the roadways or sidewalks. The overall amount would come to \$288,673 once completed.

Preusker stated at a prior public meeting, the priority was to retain the historic water tower to be structurally sound, the wall to be safe from crumbling and to be more visible, accessible and inviting for this public park. Preusker stated the new design makes it look nice, but does not have the inviting appearance. Preusker asked where did the \$250,000 budget estimate came from. Walters stated at a budget workshop in November 2016, an elected official commented that the wall needed to be fixed and wanted estimated costs. Walters stated there was a discrepancy in the budget due to the short turn around. Preusker asked what the expected life was. Governatori responded 50-75 years with no maintenance. Preusker stated he felt it was appropriate to spend the extra money for the repair and landscaping beds since nothing has been done to it for maintenance, especially since it is in the historic area. Preusker stated it

looks like a prison wall. Vos commented that he does not understand how it was called a park in the first place, since the water tower is on water department property, and should be repaired to keep the wall from collapsing onto the street. Vos stated if we were to call it a park, then an entrance needs to be added and get approval from the Park Board instead of taking money from the general fund. Dawidziak stated from a Park Board perspective, she does not see the point of spending money on this park that will not be used as a park and that there are better ways to spend funds where it is needed. Johnson inquired what was at the top of the hill. Riggs responded that only grass is at the top. Johnson suggested having a mural to make it more attractive. Dawidziak asked what the timeline was from when we bonded to when the money needs to be spent, and when the decision is made on the design to when it can be completed. DeQauker stated it is usually 18 months from when it is received to when it is expended. Dawidziak reminded the Council that the timeline has almost run out. Bauman asked if the wall can be moved back from the road. Governatori stated the plan is to move it back giving more sidewalk space. Vos commented the further it goes back, the more it costs for extra material for the wall.

- C. **Topic: Resolution 4894(52)** to approve a preliminary resolution Declaring Intent to Exercise Special Assessment Powers Under §66.0703, Wisconsin Statutes for Reconstruction of Sidewalks at Various Locations.

DPW Director Peter Riggs presented Resolution 4894(52). Riggs explained in 1991 Council established a sidewalk replacement program to financially assist the property owners with a 50/50 reconstruction cost.

- D. **Topic: Resolution 4895(53)** to consider approving an Extraterritorial Zoning Certified Survey Map for property located at 33911 Hillcrest Drive.

Building Inspector Gregory Guidry presented Resolution 4895(53). Guidry explained this property is proposed to subdivide one parcel into two lots, which have met the City requirements, and has been approved by the Town of Burlington.

- E. **Topic: Resolution 4896(54)** to approve a contract with Great Lakes TV to Inspect the City's Sanitary Sewer System in the Amount of \$12,449.36.

DPW Director Peter Riggs presented Resolution 4896(54). Riggs explained every year the Waste Water Utility televises 10% of our sanitary sewer collection systems as part of regular maintenance operations. The inspection of the collection system provides numerous benefits including planning for utility replacements, proactively identifying problems in the system and identifying lateral service connection locations. Televising quantities are also reported for the annual report to the DNR. The City of Burlington has worked with Great Lakes TV for 17 years who is familiar with our system, developed effective and efficient communication with staff, and provided a consistent familiar product.

5. **Ordinances:** There were none.

6. **Topic: Motion 18-893** to consider approving the 2018 Fireworks Agreement for July 4, 2018 with Five Star Fireworks Co.

Director of Administrative Services Megan Watkins presented Motion 18-893. Watkins explained this is an annual contract with Five Star Fireworks for July 4, 2018. There has been a few changes, such as a few new effects and added shells. The fireworks will be shot off over the ChocolateFest Grounds and not off a barge, since they do not have the equipment or staffing available this year. Further, the barge would be an additional \$3,000, which would need to be discussed at a future budget meeting.

7. **Adjourn**

A motion was made by Alderman Grandi with a second by Alderman Johnson to adjourn the meeting. With all in favor, the meeting adjourned at 7:18 p.m.

Minutes respectfully submitted by:

Kristine Anderson
Administrative Assistant
City of Burlington



COMMITTEE OF THE WHOLE

ITEM NUMBER 4A

DATE: April 4, 2018

SUBJECT: RESOLUTION 4897(55) - to approve a contractual arrangement in which the Tri-County Fire and Rescue Association, Inc. wishes to enter into with Scherrer Construction and American Fire Training Systems, Inc.

SUBMITTED BY: Alan Babe, Fire Chief

BACKGROUND/HISTORY:

The Tri-County Fire and Rescue Association, Inc. is constructing a fire training facility on the Public Works property at 2200 S. Pine Street, as allowed and described in the Intergovernmental Agreement and Ground Lease that the City is entering into for this project. The approvals being given by the City via this resolution are required by the said Intergovernmental Agreement.

Pursuant provisions in Section 2.01 and 2.05 of the Intergovernmental Agreement for the construction of the Tri-County training facility, the City needs to approve the contractual arrangement that the Tri-County Fire and Rescue Association, Inc. is proposing to enter into with Scherrer Construction for construction management and site preparation services, in the approximate amount of \$10,500, and with American Fire Training Systems, Inc. for the construction of the training facility, in the approximate amount of \$165,000.

BUDGET/FISCAL IMPACT:

This grant of approval does not create any financial obligation on the part of the City of Burlington under the said contractual arrangement. The funding for the said contractual arrangement shall solely be the responsibility of the Tri-County Fire and Rescue Association, Inc. and the other fire companies that are parties to the above described Intergovernmental Agreement.

RECOMMENDATION:

Staff recommends approval of the contractual arrangement.

TIMING/IMPLEMENTATION:

This item is for discussion at the April 4, 2018 Committee of the Whole meeting and scheduled for final consideration at the Common Council meeting the same evening.

Attachments

RES 4897(55)

Bids from Scherrer Construction and American Fire Training Systems

A RESOLUTION TO APPROVE A CONTRACTUAL ARRANGEMENT THE TRI-COUNTY FIRE AND RESCUE ASSOCIATION, INC. PROPOSES TO ENTER INTO WITH SCHERRER CONSTRUCTION AND WITH AMERICAN FIRE TRAINING SYSTEMS, INC.

WHEREAS, the Tri-County Fire and Rescue Association, Inc. is constructing a fire training facility on property owned by the City of Burlington, as further allowed and described in the Intergovernmental Agreement and Ground Lease that the City is entering into for this project. The approvals being given by the City through this resolution are required by the said Intergovernmental Agreement.

NOW, THEREFORE, BE IT RESOLVED pursuant provisions in Section 2.01 and 2.05 of the Intergovernmental Agreement entered into by the City of Burlington and the Tri-County Fire and Rescue Association, Inc. for the construction of the Tri-County training facility, the City of Burlington hereby approves the contractual arrangement that the Tri-County Fire and Rescue Association, Inc. is proposing to enter into with Scherrer Construction for construction management and site preparation services, in the approximate amount of \$10,500, and with American Fire Training Systems, Inc. for the construction of the training facility, in the approximate amount of \$165,000.

BE IT FURTHER RESOLVED this grant of approval does not create any financial obligation on the part of the City of Burlington under the said contractual arrangement. The funding for the said contractual arrangement shall solely be the responsibility of the Tri-County Fire and Rescue Association, Inc. and the other fire companies that are parties to the above described Intergovernmental Agreement.

Introduced: April 4, 2018
Adopted: April 4, 2018

Jeannie Hefty, Mayor

Attest:

Diahnn Halbach, Clerk

American Fire Training Systems, Inc.
The first name in fire training facilities
15200 New Avenue Lockport, IL 60441
(P) 630-257-3659 (F) 630-257-3669

American Fire Training Systems, Inc.

Name Burlington FD Date 3/13/2018
 Address 165 West Washington St. REVISED 100 miles
 City Burlington, WI CONFIDENTIAL
 Contact: Eric Jones
 262-206-5844

QUAN	ITEM	SIZE	AMOUNT	TOTAL
1	CONTAINER- EA.-	20'new	4950	4950
4	CONTAINER- EA.-	40'new	6500	26000
5	WINDOW -EA W/ LOCKING LATCH	36" X 36"	975	4875
6	DOOR -EA W/ LOCKING LATCH	36" X 80"	1250	7500
1	SWING BREACH WALL 8'		2860	2860
1	EXTERIOR STAIRCASE W/SAFETY GATE		3250	3250
2	INTERIOR WALL OPENINGS- EA	VARIOUS	1250	2500
2	INTERIOR STAIRS galv	9 tread	3250	6500
5	PAINT-EXTERIOR/INTERIOR		2675	13375
3	1/8 " DIA PLATE DECKS		3395	10185
1	Pitched Roof Sim w/ 2-4'x4' chop outs		7800	7800
1	RAPPEL STATION ANCHOR SYSTEM	HI/LOW	2750	2750
14	High temp Stainless Steel lined	per lin ft	2875	40250
	insulated burn room W/ STEEL FLOOR			
	W/ BURN APRONS			
1	Thermal burn windows		Included	
3	Thermal Burn Doors		included	
4	DRAINS		included	
1	Thermal hatches		included	
1	Vent hatch		included	
1	HEAVY DUTY BURN RACK		3250	3250
1	rtd temp monitoring system wireless		2750	2750
1	DROP DOWN LADDER		1250	1250
	Cartage	100		2500
		Total		\$142,545.00
	<u>Set up on your prepared surface</u>			
	YES	X		
	NO			
	Set up charge - NON-PREVAILING WAGE			\$22,465.09
	Grand Total complete			\$165,010.09



P.O. Box 740, 601 Blackhawk Dr.
Burlington, Wisconsin 53105
Ph: (262) 767-2700 Fax: (262) 767-2701

Proposal

November 1, 2017

Fire Training Center
Burlington WI

Scherrer Construction will perform the following work per our discussions and our understanding of the project as detailed below:

- Strip topsoil (aprox 6") and pile/spread adjacent to the pad site.
- Auger (12) 3'x 5' holes
- Pour with 4,000PSI concrete and rebar as detailed
- Install base plates (provided by others)
- Provide, place, and compact 6" stone base under building "footprint"
- All debris created will be removed from the site

This work as described above can be performed for the sum of \$10,250.00

Please feel free to call (262-539-3100) or e-mail with any questions or concerns you might have in regards to the above proposal and thank you for the opportunity to be of service.

Sincerely,

Scherrer Construction Co., Inc.

A handwritten signature in black ink, appearing to read "Joe Ehlen", written over a horizontal line.

Joe Ehlen
Field Operations Manager



COMMITTEE OF THE WHOLE**ITEM NUMBER 4B**

DATE: April 4, 2018**SUBJECT:** **RESOLUTION 4898(56)** - to consider approving the award of bid for a generator and the removal of the old generator for the City of Burlington Police Department to Peck & Weis Inc. in the amount of \$65,304.00.**SUBMITTED BY:** Mark Anderson, Police Chief

BACKGROUND/HISTORY:

The current generator inside the Burlington Police Department's basement was destroyed in the July 2017 flood. Since that time, the department has not had a generator. The generator will be placed outside the police department at ground level and will generate power for the Police Department for 24 hours in the event normal electrical power is lost or compromised.

BUDGET/FISCAL IMPACT:

The current generator was scheduled to be replaced as early as 2014 and the \$61,600 for a new generator is in the Equipment Replacement Fund. Peck & Weis Inc. submitted a \$65,304.00 bid for the removal of the old generator and the installation of a Kohler generator (Peck & Weis options #3 and #5). Adams Electric submitted a \$63,690.01 bid for the removal of the old generator and the installation of a Generac generator. Rewald Electric submitted a \$68,900.00 bid for the removal of the old generator and the installation of a Kohler generator.

RECOMMENDATION:

Staff recommends the Common Council award the bid for a generator and the removal of the old generator to Peck & Weis. Although it is not the lowest bid, staff believes that the Kohler brand is worth the additional cost.

TIMING/IMPLEMENTATION:

This item is for discussion at the April 4, 2018 Committee of the Whole meeting and scheduled for final consideration at the April 4, 2018 Common Council meeting.

Attachments

RES 4898(56) Bid Award
Peck & Weis Bid
Peck & Weis Generator
Peck & Weis Generator Accessories
Peck & Weis Transfer Switch
Adams Electric Bid
Adams Electric Generator
Adams Electric Transfer Switch
Rewald Electric Bid

Resolution No. 4898(56)

Introduced by: Committee of the Whole

**A RESOLUTION APPROVING THE AWARD OF BID FOR A GENERATOR AND THE
REMOVAL OF OLD GENERATOR FOR THE CITY OF BURLINGTON POLICE
DEPARTMENT TO PECK & WEIS INC. FOR THE AMOUNT OF \$65,304.00**

WHEREAS, on June 1, 2004 the Common Council did approve Resolution 3812(18), a Resolution Adopting a Purchasing Policy for the City of Burlington; and,

WHEREAS, the Purchasing Policy requires that all non-construction related Budget Items requiring expenditures of \$15,000 or more to be reviewed and pre-approved by the Common Council; and,

WHEREAS, the Council may direct, at its discretion, that the item is to be bid in the same manner as construction contracts, or that it is to be combined with or included in another governmental bid, but shall not be required to do so; and,

WHEREAS, the City of Burlington Police Department is scheduled to replace its generator with funds included in the 2018 Police Department budget; and,

WHEREAS, the Police Department has searched local businesses for a generator meeting the Police Department specifications; and,

WHEREAS, the purchase of a Kohler generator installed by Peck & Weis, Inc. for the amount of \$65,304.00 has been recommended by the Chief of Police.

NOW, THEREFORE, BE IT RESOLVED by the Common Council of the City of Burlington that purchase of the aforementioned vehicles is hereby approved for the amount of \$65,304.00.

Introduced: April 4, 2018

Adopted: April 4, 2018

Jeannie Hefty, Mayor

Attest:

Diahn Halbach, City Clerk

PROPOSAL



Peck & Weis Inc.
2506 CREST DR
LAKE GENEVA WI 53147
Main (262) 248-6836
Fax (262) 248-1490
www.peckandweis.com

**ELECTRICAL
CONTRACTOR**

PROPOSAL SUBMITTED TO **BURLINGTON POLICE DEPT**

STREET **224 E JEFFERSON ST**

CITY, STATE, AND ZIP CODE **BURLINGTON, WI 53105**

DATE OF PLANS

PHONE **2623421100**

DATE **3/22/2018 11:44:09 AM**

JOB NAME **KOHLER GENERATOR**

JOB LOCATION **224 E JEFFERSON ST**

QUOTE # **6532**

We hereby submit specifications and estimates for:

1-KOHLER 100KW DIESEL GENERATOR SET LOCATED AT THE NORTH EAST SIDE OF THE BUILDING AS DISCUSSED AT WALK-THROUGH.
1-KOHLER 400 AMP TRANSFER SWITCH LOCATED IN APPROXIMATELY SAME LOCATION AS EXISTING.
1-NEW REMOTE ANNUNCIATOR LOCATED IN PLACE OF EXISTING IN OFFICE.

-STATE OF WISCONSIN FUEL TANK AND REGISTRATION IS INCLUDED IN THIS PRICE. (APPROXIMATELY \$2000.00)

-ALL OPTIONS BELOW INCLUDE START-UP, LOAD TESTING, 1 TANK OF FUEL AND TRAINING FOR PERSONNEL.

OPTION #1

GENERATOR PLACED ABOVE RETAINING WALL ON FOOTINGS AND CONCRETE PAD. 24 HOUR FUEL TANK.
\$68,404.00

OPTION #2

GENERATOR PLACED ABOVE RETAINING WALL ON FOOTINGS AND CONCRETE PAD. 48 HOUR FUEL TANK.
\$71,084.00

OPTION #3

GENERATOR PLACED IN SAME LOCATION WITH GRADE AND CONCRETE PAD LOWERED TO SIDEWALK ELEVATION. 24 HOUR TANK.
LANDSCAPE REPAIR/ALTERATIONS BY OTHERS.
\$62,904.00

OPTION #4

GENERATOR PLACED IN SAME LOCATION WITH GRADE AND CONCRETE PAD LOWERED TO SIDEWALK ELEVATION. 48 HOUR TANK.
LANDSCAPE REPAIR/ALTERATIONS BY OTHERS.
\$65,584.00

OPTION #5

REMOVAL OF EXISTING GENSET FROM BASEMENT AND DISPOSED OF.
\$2400.00

PROPOSAL



Peck & Weis Inc.
2506 CREST DR
LAKE GENEVA WI 53147
Main (262) 248-6836
Fax (262) 248-1490
www.peckandweis.com

**ELECTRICAL
CONTRACTOR**

PROPOSAL SUBMITTED TO **BURLINGTON POLICE DEPT**

PHONE **2623421100**

DATE **3/22/2018 11:44:09 AM**

STREET **224 E JEFFERSON ST**

JOB NAME **KOHLER GENERATOR**

CITY, STATE, AND ZIP CODE **BURLINGTON, WI 53105**

JOB LOCATION **224 E JEFFERSON ST**

DATE OF PLANS

QUOTE # **6532**

We hereby submit specifications and estimates for:

- This Price is based on specifications supplied and what is required by code.
- Additional openings/features may be desired and can be added at the walk-through at an additional charge.
- One year parts and labor warranty. Manufactures limited warranties on fixtures supplied by Peck & Weis. Peck & Weis does not warranty equipment not supplied by them.

We propose hereby to furnish material and labor -- complete in accordance with the above specifications, for the sum of:
(Plus options/extras after the written proposed cost)

Zero and no/100 (**\$0.00**).

Payments to be made as follows: **PRICE PER OPTION SELECTED**

3% Convenience fee will be charged on credit card payments.

All material is guaranteed to be as specified. All work to be completed in a workmanlike manner according to standard practices. Any alteration or deviation from above specifications involving extra costs will be executed only upon written orders, and will become an extra charge over and above the estimate. All agreements contingent upon strikes, accidents or delays beyond our control. Owner to carry fire, tornado and other necessary insurance. Our workers are fully covered by Workmen's Compensation Insurance.

Authorized Signature *Alex Miles* **Alex Miles**

Note: This proposal may be withdrawn by us if not accepted within 30 days.

"As required by the Wisconsin construction lien law, builder hereby notifies owner that persons or companies furnishing labor or materials for the construction on owner's land may have lien rights on owner's land and buildings if not paid. Those entitled to lien rights, in addition to the undersigned builder, are those who contract directly with the owner or those who give the owner notice within 60 days after they first furnish labor or materials for the construction, and should give a copy of each notice received to the mortgage lender, if any. Builder agrees to cooperate with the owner and the owner's lender, if any, to see that all potential lien claimants are duly paid."

Acceptance of Proposal -- The above prices,

specifications and conditions are satisfactory and are hereby accepted. You are authorized to do the work as specified. Payment will be made as outlined above.

Signature _____

Date of Acceptance _____

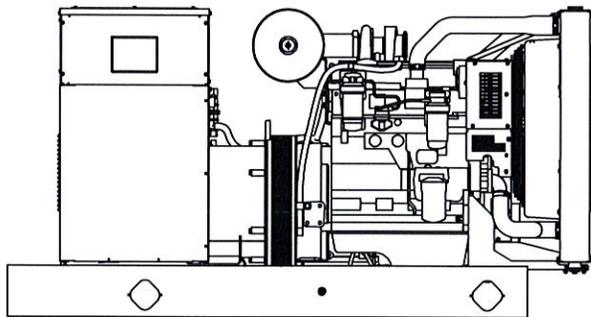
Signature _____



Tier 3 EPA-Certified for Stationary Emergency Applications

Ratings Range

		60 Hz
Standby:	kW	77-102
	kVA	77-128
Prime:	kW	71-92
	kVA	71-115



Standard Features

- Kohler Co. provides one-source responsibility for the generating system and accessories.
- The generator set and its components are prototype-tested, factory-built, and production-tested.
- The 60 Hz generator set offers a UL 2200 listing.
- The generator set accepts rated load in one step.
- The 60 Hz generator set meets NFPA 110, Level 1, when equipped with the necessary accessories and installed per NFPA standards.
- A one-year limited warranty covers all generator set systems and components. Two- and five-year extended limited warranties are also available.
- Alternator features:
 - The unique Fast-Response® X excitation system delivers excellent voltage response and short-circuit capability using a rare-earth, permanent magnet (PM)-excited alternator.
 - The brushless, rotating-field alternator has broadrange reconnectability.
- Other features:
 - Kohler designed controllers for guaranteed system integration and remote communication. See Controllers on page 3.
 - The low coolant level shutdown prevents overheating (standard on radiator models only).
 - Integral vibration isolation eliminates the need for under-unit vibration spring isolators.
 - Multiple circuit breaker configurations.

Generator Set Ratings

Alternator	Voltage	Ph	Hz	130°C Rise Standby Rating		105°C Rise Prime Rating	
				kW/kVA	Amps	kW/kVA	Amps
4R9X	120/208	3	60	100/125	347	90/113	312
	127/220	3	60	100/125	328	90/113	295
	120/240	3	60	100/125	301	90/113	271
	120/240	1	60	77/77	321	71/71	296
	139/240	3	60	100/125	301	90/113	271
	220/380	3	60	100/125	190	90/113	171
	277/480	3	60	100/125	150	90/113	135
	347/600	3	60	100/125	120	90/113	108
4R12X	120/208	3	60	102/128	354	92/115	319
	127/220	3	60	102/128	335	92/115	302
	120/240	3	60	102/128	307	92/115	277
	120/240	1	60	91/91	379	84/84	350
	139/240	3	60	102/128	307	92/115	277
	220/380	3	60	102/128	194	92/115	175
	277/480	3	60	102/128	153	92/115	138
347/600	3	60	102/128	123	92/115	111	
4T12X	120/240	1	60	100/100	417	90/90	375

RATINGS: All three-phase units are rated at 0.8 power factor. All single-phase units are rated at 1.0 power factor. Standby Ratings: The standby rating is applicable to varying loads for the duration of a power outage. There is no overload capability for this rating. Prime Power Ratings: At varying load, the number of generator set operating hours is unlimited. A 10% overload capacity is available for one hour in twelve. Ratings are in accordance with ISO-8528-1 and ISO-3046-1. For limited running time and continuous ratings, consult the factory. Obtain technical information bulletin (TIB-101) for ratings guidelines, complete ratings definitions, and site condition derates. The generator set manufacturer reserves the right to change the design or specifications without notice and without any obligation or liability whatsoever.

Alternator Specifications

Specifications	Alternator
Manufacturer	Kohler
Type	4-Pole, Rotating-Field
Exciter type	Brushless, Rare-Earth, Permanent-Magnet
Leads: quantity, type	
4RX	12, Reconnectable
4TX	4, 120/240
Voltage regulator	Solid State, Volts/Hz
Insulation:	NEMA MG1
Material	Class H
Temperature rise	130°C, Standby
Bearing: quantity, type	1, Sealed
Coupling	Flexible Disc
Amortisseur windings	Full
Voltage regulation, no-load to full-load	Controller Dependent
One-step load acceptance	100% of Rating
Unbalanced load capability	100% of Rated Standby Current

- NEMA MG1, IEEE, and ANSI standards compliance for temperature rise and motor starting.
- Sustained short-circuit current of up to 300% of the rated current for up to 10 seconds.
- Sustained short-circuit current enabling downstream circuit breakers to trip without collapsing the alternator field.
- Self-ventilated and dripproof construction.
- Windings are vacuum-impregnated with epoxy varnish for dependability and long life.
- Superior voltage waveform from a two-thirds pitch stator and skewed rotor.

Specifications	Alternator
Peak motor starting kVA:	(35% dip for voltages below)
480 V 4R9X (12 lead)	385
480 V 4R12X (12 lead)	448
240 V 4T12X (4 lead)	275

Application Data

Engine

Engine Specifications	
Manufacturer	John Deere
Engine model	4045HF285I
Engine type	4-Cycle, Turbocharged, Charge Air-Cooled
Cylinder arrangement	4 Inline
Displacement, L (cu. in.)	4.5 (276)
Bore and stroke, mm (in.)	106 x 127 (4.19 x 5.00)
Compression ratio	19:1
Piston speed, m/min. (ft./min.)	457 (1500)
Main bearings: quantity, type	5, Replaceable Insert
Rated rpm	1800
Max. power at rated rpm, kWm (BHP)	118 (158)
Cylinder head material	Cast Iron
Crankshaft material	Forged Steel
Valve material:	
Intake	Chromium-Silicon Steel
Exhaust	Stainless Steel
Governor: type, make/model	JDEC Electronic L16 Denso HP3
Frequency regulation, no-load to full-load	Isochronous
Frequency regulation, steady state	±0.25%
Frequency	Fixed
Air cleaner type, all models	Dry

Engine Electrical

Engine Electrical System	
Battery charging alternator:	12 Volt
Ground (negative/positive)	Negative
Volts (DC)	12
Ampere rating	65
Starter motor rated voltage (DC)	12
Battery, recommended cold cranking amps (CCA):	
Quantity, CCA rating each	One, 640
Battery voltage (DC)	12

Fuel

Fuel System	
Fuel supply line, min. ID, mm (in.)	11.0 (0.44)
Fuel return line, min. ID, mm (in.)	6.0 (0.25)
Max. lift, fuel pump: type, m (ft.)	Engine-Driven, 1.8 (6.0)
Max. fuel flow, Lph (gph)	74.6 (19.7)
Max. return line restriction, kPa (in. Hg)	20 (5.9)
Fuel prime pump	Manual
Fuel filter	
Primary	30 Microns
Secondary	2 Microns @ 98% Efficiency
Water Separator	Yes
Recommended fuel	#2 Diesel

Exhaust

Exhaust System	
Exhaust manifold type	Dry
Exhaust flow at rated kW, m ³ /min. (cfm)	22.8 (805)
Exhaust temperature at rated kW, dry exhaust, °C (°F)	580 (1076)
Maximum allowable back pressure, kPa (in. Hg)	7.5 (2.2)
Exhaust outlet size at engine hookup, mm (in.)	98 (3.86)

Lubrication

Lubricating System	
Type	Full Pressure
Oil pan capacity, L (qt.)	14.7 (15.5)
Oil pan capacity with filter, L (qt.)	15.6 (16.5)
Oil filter: quantity, type	1, Cartridge
Oil cooler	Water-Cooled

Application Data

Cooling

Radiator System

Ambient temperature, °C (°F) *	50 (122)
Engine jacket water capacity, L (gal.)	8.5 (2.25)
Radiator system capacity, including engine, L (gal.)	20.1 (5.3)
Engine jacket water flow, Lpm (gpm)	182 (48)
Heat rejected to cooling water at rated kW, dry exhaust, kW (Btu/min.)	62 (3544)
Heat rejected to air charge cooler at rated kW, dry exhaust, kW (Btu/min.)	20 (1127)
Water pump type	Centrifugal
Fan diameter, including blades, mm (in.)	600 (23.6)
Fan, kWm (HP)	6.6 (8.8)
Max. restriction of cooling air, intake and discharge side of radiator, kPa (in. H ₂ O)	0.125 (0.5)

* Enclosure with enclosed silencer reduces ambient temperature capability by 5°C (9°F).
 Snow package enclosure with enclosed silencer reduces ambient temperature capability by 10°C (18°F).

Operation Requirements

Air Requirements

Radiator-cooled cooling air, m ³ /min. (scfm) ‡	142 (5000)
Combustion air, m ³ /min. (cfm)	8.2 (288)
Heat rejected to ambient air:	
Engine, kW (Btu/min.)	25.0 (1420)
Alternator, kW (Btu/min.)	11.6 (660)

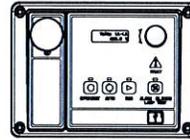
‡ Air density = 1.20 kg/m³ (0.075 lbf/ft³)

Fuel Consumption

Diesel, Lph (gph) at % load	Standby Rating	
100%	31.0	(8.2)
75%	25.0	(6.6)
50%	17.8	(4.7)
25%	9.5	(2.5)

Diesel, Lph (gph) at % load	Prime Rating	
100%	27.6	(7.3)
75%	22.7	(6.0)
50%	14.4	(3.8)
25%	7.6	(2.0)

Controllers

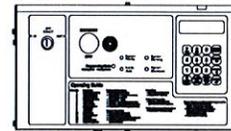


Decision-Maker® 3000 Controller

Provides advanced control, system monitoring, and system diagnostics for optimum performance and compatibility.

- Digital display and menu control provide easy local data access
- Measurements are selectable in metric or English units
- Remote communication thru a PC via network or serial configuration
- Controller supports Modbus® protocol
- Integrated hybrid voltage regulator with ±0.5% regulation
- Built-in alternator thermal overload protection
- NFPA 110 Level 1 capability

Refer to G6-100 for additional controller features and accessories.

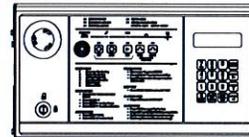


Decision-Maker® 550 Controller

Provides advanced control, system monitoring, and system diagnostics with remote monitoring capabilities.

- Digital display and keypad provide easy local data access
- Measurements are selectable in metric or English units
- Remote communication thru a PC via network or modem configuration
- Controller supports Modbus® protocol
- Integrated voltage regulator with ±0.25% regulation
- Built-in alternator thermal overload protection
- NFPA 110 Level 1 capability

Refer to G6-46 for additional controller features and accessories.



Decision-Maker® 6000 Paralleling Controller

Provides advanced control, system monitoring, and system diagnostics with remote monitoring capabilities for paralleling multiple generator sets.

- Paralleling capability with first-on logic, synchronizer, kW and kVAR load sharing, and protective relays
- Digital display and keypad provide easy local data access
- Measurements are selectable in metric or English units
- Remote communication thru a PC via network or modem configuration
- Controller supports Modbus® protocol
- Integrated voltage regulator with ±0.25% regulation
- Built-in alternator thermal overload protection
- NFPA 110 Level 1 capability

Refer to G6-107 for additional controller features and accessories.

Modbus® is a registered trademark of Schneider Electric.

Standard Features

- Alternator Protection
- Battery Rack and Cables
- Customer Connection
(standard with Decision-Maker® 6000 controller only)
- Local Emergency Stop Switch
- Oil Drain Extension
- Operation and Installation Literature

Available Options

Approvals and Listings

- California OSHPD Approval
- CSA Approval
- IBC Seismic Certification
- UL 2200 Listing

Enclosed Unit

- Snow Enclosure (sound enclosure with enclosed critical silencer, intake hood, and electrical package)
- Sound Enclosure (with enclosed critical silencer)
- Weather Enclosure (with enclosed critical silencer)

Open Unit

- Exhaust Silencer, Critical (kit: PA-354809)
- Flexible Exhaust Connector, Stainless Steel

Fuel System

- Flexible Fuel Lines
- Fuel Pressure Gauge
- Subbase Fuel Tanks

Controller

- Common Failure Relay
- Communication Products and PC Software
- Customer Connection (Decision-Maker® 550 controller only)
- Decision-Maker® Paralleling System (DPS)
(Decision-Maker® 6000 controller only)
- Dry Contact (isolated alarm)
(Decision-Maker® 550 and 6000 controllers only)
- Input/Output Module (Decision-Maker® 3000 controller only)
- Remote Emergency Stop Switch
- Remote Serial Annunciator Panel
- Run Relay

Cooling System

- Block Heater, 1500 W, 90–120 V, 1 Ph
Recommended for ambient temperatures below 0°C (32°F)
- Radiator Duct Flange

Electrical System

- Alternator Strip Heater
- Battery
- Battery Charger, Equalize/Float Type
- Battery Heater
- Line Circuit Breaker (NEMA type 1 enclosure)
- Line Circuit Breaker with Shunt Trip (NEMA type 1 enclosure)

Paralleling System

- Manual Speed Adjust

Miscellaneous

- Air Cleaner, Heavy Duty
- Air Cleaner Restriction Indicator
- Certified Test Report
- Crankcase Emissions Canister
- Engine Fluids Added
- Rated Power Factor Testing
- Rodent Guards

Literature

- General Maintenance
- NFPA 110
- Overhaul
- Production

Warranty

- 2-Year Basic Limited
- 5-Year Basic Limited
- 5-Year Comprehensive Limited

Other Options

- _____
- _____
- _____
- _____
- _____

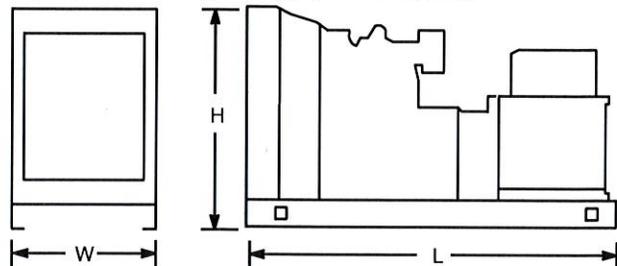
Dimensions and Weights

Overall Size, L x W x H, mm (in.):

Wide Skid: See Enclosure ADV Drawing

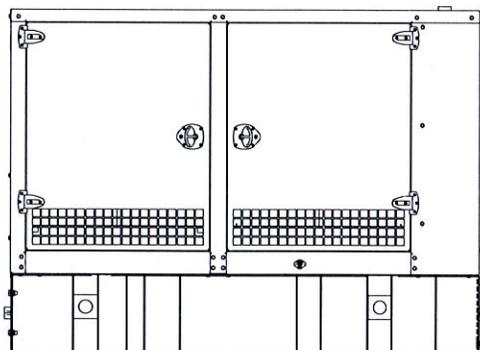
Narrow Skid: 2334 x 864 x 1216 (91.89 x 34.02 x 47.90)

Weight (radiator model), wet, kg (lb.): 1234 (2720)

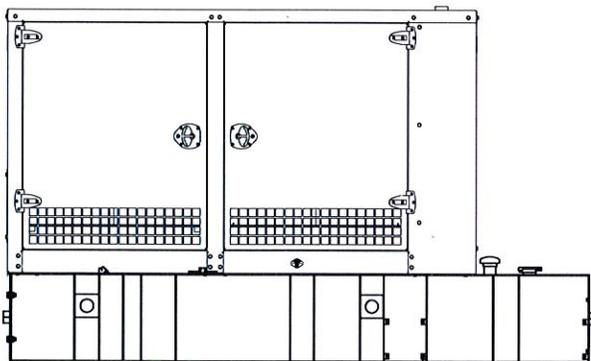


NOTE: This drawing is provided for reference only and should not be used for planning installation. Contact your local distributor for more detailed information.

DISTRIBUTED BY:



Enclosure with Standard Subbase Fuel Tank



Enclosure with State Code Subbase Fuel Tank

Available Approvals and Listings

- UL 2200 Listing
- CSA Certified
- IBC Seismic Certification *
- California OSHPD Approval *
- cUL Listing (fuel tanks only)

NOTE: Some models may have limited third-party approvals; see your local distributor for details.

* Requires a state code subbase fuel tank selection.

Applicable to the following:

40REOZJC
50/60REOZJD
80/100/150/200REOZJF
125/180REOZJG
230-275REOZJE
300REOZJ

Weather Enclosure Standard Features

- Internal-mounted silencer and flexible exhaust connector.
- Lift base or tank-mounted, steel construction with hinged doors.
- Fade-, scratch-, and corrosion-resistant Kohler® Power Armor™ automotive-grade textured finish.
- Enclosure has four access doors which allow for easy maintenance.
- Lockable, flush-mounted door latches.
- Vertical air inlet and outlet discharge to redirect air and reduce noise.
- Weather enclosure has a 241 kph (150 mph) wind load rating.

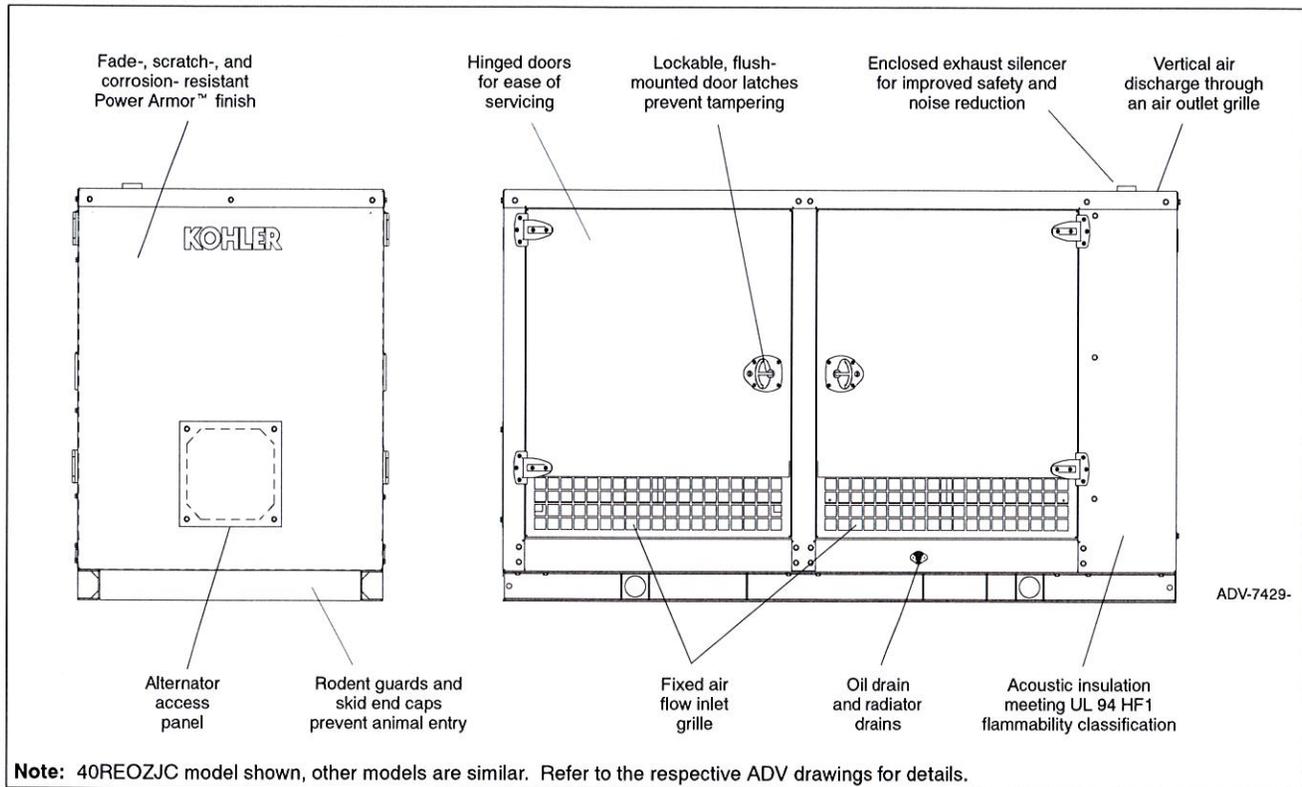
Sound Enclosure Standard Features

- Includes all of the weather enclosure features with the addition of acoustic insulation material.
- Lift base or tank-mounted, steel or aluminum construction with hinged doors. Aluminum enclosures are recommended for high humidity and/or high salt/coastal regions.
- Acoustic insulation that meets UL 94 HF1 flammability classification and repels moisture absorption.
- Sound-attenuated enclosure that uses up to 51 mm (2 in.) of acoustic insulation.
- Steel sound enclosure has a 241 kph (150 mph) wind load rating.
- Aluminum sound enclosure has a 291 kph (181 mph) wind load rating.

Subbase Fuel Tank Features

- The fuel tank has a Power Armor Plus™ textured epoxy-based rubberized coating.
- The above-ground rectangular secondary containment tank mounts directly to the generator set, below the generator set skid (subbase).
- Both the inner and outer tanks have emergency relief vents.
- Flexible fuel lines are provided with subbase fuel tank selection.
- The secondary containment generator set base tank meets UL 142 tank requirements. The inner (primary) tank is sealed inside the outer (secondary) tank. The outer tank contains the fuel if the inner tank leaks or ruptures.
- State tanks with varying capacities are an available option. Florida Dept. of Environmental Protection (FDEP) File No. EQ-634 approved.

Weather and Sound Enclosure



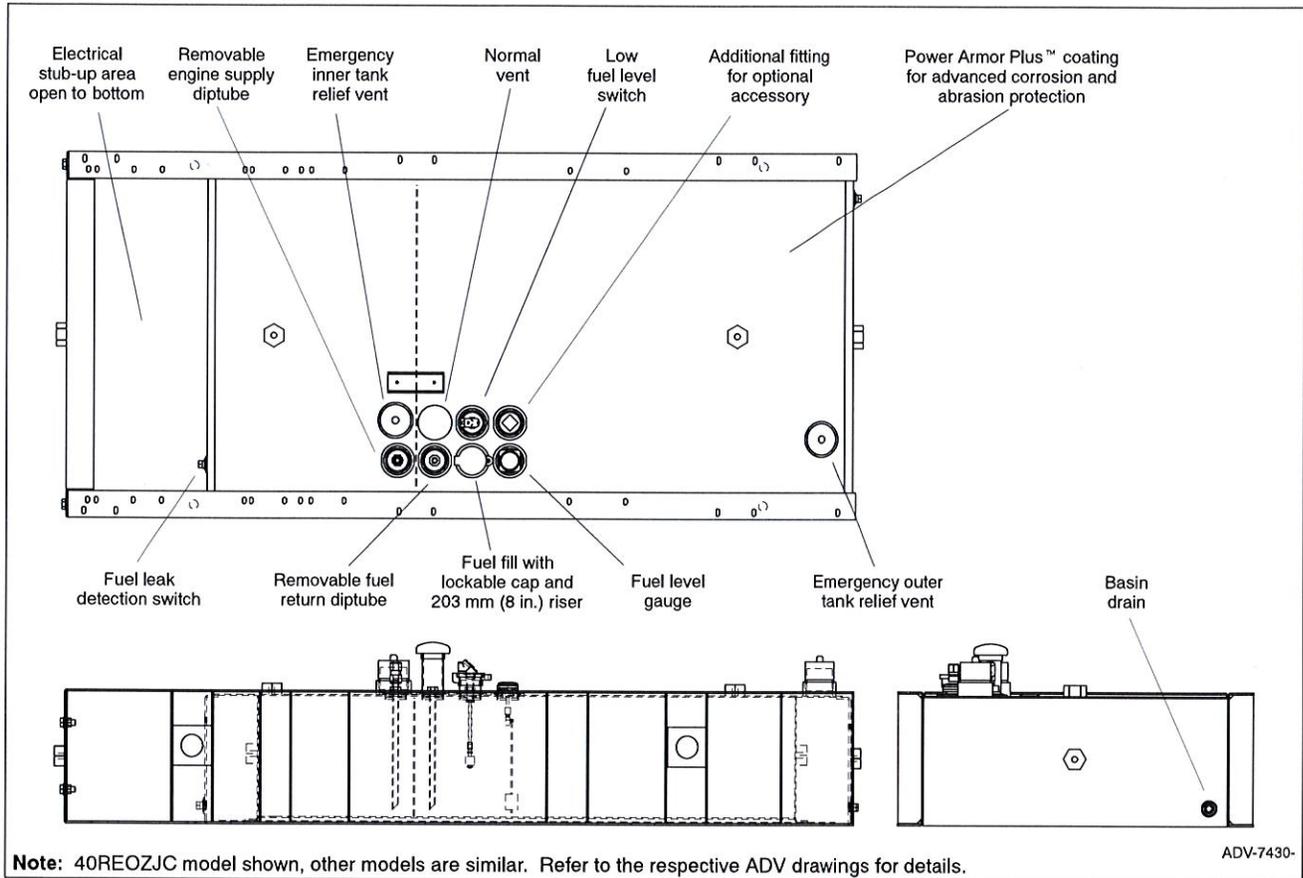
Enclosure Features

- Available in steel (14 gauge) formed panel, solid construction. Preassembled package offering corrosion resistant, dent resilient structure mounting directly to lift base or fuel tank.
 - Power Armor™ automotive-grade finish resulting in advanced corrosion and abrasion protection as well as enhanced edge coverage and color retention.
 - Internal exhaust silencer offering maximum component life and operator safety.
 - Interchangeable modular panel construction. Allows complete serviceability or replacement without compromising enclosure design.
 - Cooling/combustion air intake with a horizontal air inlet. Sized for maximum cooling airflow.
 - Service access. Multi-personnel doors for easy access to generator set control and servicing of the fuel fill, fuel gauge, oil fill, and battery.
 - Cooling air discharge. Weather protective design featuring a vertical air discharge outlet grille. Redirects cooling air up and above enclosure to reduce ambient noise.
- NOTE:** Installing an additional length of exhaust tail pipe may increase backpressure levels. Please refer to the generator set spec sheet for the maximum backpressure value.

Additional Sound Enclosure Features

- Available in steel (14 gauge) or aluminum 3.2 mm (0.125 in.) formed panel, solid construction.
- Sound-attenuated design. Acoustic insulation UL 94 HF1 listed for flame resistance offering up to 51 mm (2 in.) mechanically restrained acoustic insulation.
- Cooling air discharge. The sound enclosures include acoustic insulation with urethane film.
- Snow package enclosure is designed to meet NFPA 110 requirement to -20°C (-4°F).

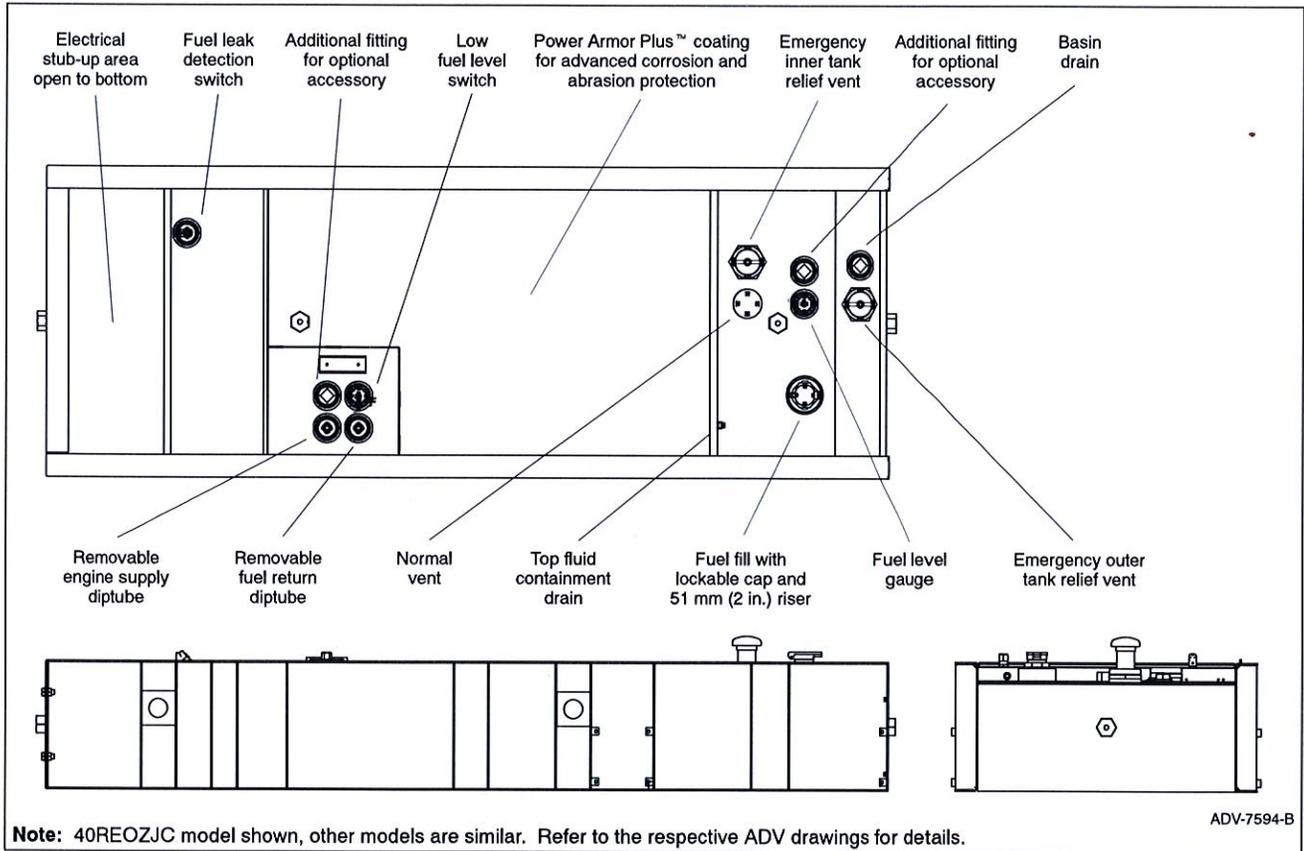
Subbase Fuel Tank



Standard Subbase Fuel Tank Features

- Extended operation. Usable tank capacity offers full load standby operation of up to 72 hours.
 - Power Armor Plus™ textured epoxy-based rubberized coating that creates an ultra-thick barrier between the tank and harsh environmental conditions like humidity, saltwater, and extreme temperatures, and provides advanced corrosion and abrasion protection.
 - UL listed. Secondary containment generator set base tank meeting UL 142 requirements.
 - NFPA compliant. Designed to comply with the installation standards of NFPA 30 and NFPA 37.
 - Integral external lift lugs. Enables crane with spreader-bar lifting of the complete package (empty tank, mounted generator set, and enclosure) to ensure safety.
 - Emergency pressure relief vents. Vents ensure adequate venting of the inner and outer tank under extreme pressure and/or emergency conditions.
 - Normal vent with cap. Vent is raised above lockable fuel fill.
 - Low fuel level switch. Annunciates a 50% low fuel level condition at generator set control.
 - Leak detection switch. Annunciates a contained primary tank fuel leak condition at generator set control.
 - Electrical stub-up.
- NOTE:** For IBC Seismic Certification and/or California OSHPD Approval, see State Code Subbase Fuel Tank.

State Code Subbase Fuel Tank



State Code Subbase Fuel Tank Features

- State tank designed to comply with the installation standards of the Florida Dept. of Environmental Protection (FDEP) File No. EQ-634.
- Includes all of the Standard Subbase Fuel Tank Features.

State Code Subbase Fuel Tank Options

Bottom Clearance

- I-beams, provides 106 mm (4.2 in.) of ground clearance

Fuel in Basin Options

- Fuel in basin switch, Florida Dept. of Environmental Protection (FDEP) File No. EQ-682 approved

Fuel Fill Options

- Fill pipe extension to within 152 mm (6 in.) of bottom of fuel tank.
- 18.9 L (5 gallon) spill containment with 95% shutoff
- 18.9 L (5 gallon) spill containment
- 18.9 L (5 gallon) spill containment fill to within 152 mm (6 in.) of bottom of fuel tank
- 28.4 L (7.5 gallon) spill containment, Florida Dept. of Environmental Protection (FDEP) File No. EQ-345 approved
- 28.4 L (7.5 gallon) spill containment with 95% shutoff, Florida Dept. of Environmental Protection (FDEP) File No. EQ-345/ EQ-257 approved

Fuel Supply Options

- Fire safety valve (installed on fuel supply line)
- Ball valve (installed on fuel supply line)

High Fuel Level Switch

- High fuel level switch
- High fuel level switch, Florida Dept. of Environmental Protection (FDEP) File No. EQ-682 approved

Normal Vent Options

- 3.7 m (12 ft.) above grade (without spill containment)
- 3.7 m (12 ft.) above grade (with spill containment)

Tank Marking Options

- Decal, Combustible Liquids - Keep Fire Away (qty. 2)
- Decal, NFPA 704 identification (qty. 2)
- Decal, tank number and safe fuel fill height (qty. 2)
- Decal, tank number and safe fuel fill height, NFPA 704 identification

Fluid Containment Options

- 100% engine fluid containment

Third-Party Approvals

- IBC Seismic Certification
- California OSPHD Approval

Enclosure and Subbase Fuel Tank Specifications

Fuel Tank Capacity, L (gal.)	Est. Fuel Supply Hours at 60 Hz with Full Load, Nominal/Actual	Enclosure and Subbase Fuel Tank					Fuel Tank Height (or additional skid height with no tank), mm (in.)	Sound Pressure Level at 60 Hz with Full Load, Weather/Sound, dB(A)‡
		Max. Dimensions, mm (in.)			Max. Weight, kg (lb.) *			
		Length	Width	Height	With Steel Enclosure	With Aluminum Enclosure		
40REOZJC Standard Fuel Tank								
No Tank	0	2320 (91.3)	1077 (42.4)	1521 (60.0)	966 (2130)	853 (1880)	100 (4)	78/65
424 (112)	24/32			1827 (71.9)	1223 (2697)*	1110 (2447)*	406 (16)	
621 (164)	48/48			1980 (78.0)	1274 (2809)*	1161 (2559)*	559 (22)	
946 (250)	72/73			2234 (88.0)	1555 (3429)*	1442 (3179)*	813 (32)	
40REOZJC State Code Fuel Tank †								
439 (116)	24/34	2896 (114)	1077 (42.4)	1883 (74.1)	1451 (3199)*	1338 (2949)*	356 (14)	78/65
958 (253)	72/74			2213 (87.1)	1575 (3472)*	1462 (3222)*	686 (27)	
50REOZJD Standard Fuel Tank								
No Tank	0	2320 (91.3)	1077 (42.4)	1521 (59.9)	1027 (2265)	914 (2015)	100 (4)	78/66
424 (112)	24/26			1827 (71.9)	1285 (2832)*	1171 (2582)*	406 (16)	
621 (164)	36/38			1980 (78.0)	1335 (2944)*	1222 (2694)*	559 (22)	
946 (250)	48/58			2234 (88.0)	1555 (3429)*	1442 (3179)*	813 (32)	
50REOZJD State Code Fuel Tank †								
439 (116)	24/26	2896 (114)	1077 (42.4)	1883 (74.1)	1529 (3371)*	1416 (3121)*	356 (14)	78/66
958 (253)	48/58			2213 (87.1)	1653 (3644)*	1540 (3394)*	686 (27)	
1408 (372)	72/86			2441 (96.1)	1804 (3977)*	1691 (3727)*	914 (36)	
60REOZJD Standard Fuel Tank								
No Tank	0	2320 (91.3)	1077 (42.4)	1521 (59.9)	1164 (2566)	1051 (2316)	100 (4)	78/68
492 (130)	24/26			1878 (73.9)	1438 (3170)*	1324 (2920)*	457 (18)	
783 (207)	36/41			2107 (83.0)	1514 (3338)*	1401 (3088)*	686 (27)	
946 (250)	48/50			2234 (88.0)	1555 (3429)*	1442 (3179)*	813 (32)	
60REOZJD State Code Fuel Tank †								
556 (147)	24/29	2895 (114)	1077 (42.4)	1959 (77.1)	1616 (3563)*	1503 (3313)*	432 (17)	78/68
958 (253)	48/50			2213 (87.1)	1767 (3896)*	1654 (3646)*	686 (27)	
1408 (372)	72/74			2441 (96.1)	1918 (4228)*	1805 (3978)*	914 (36)	
80REOZJF Standard Tank								
No Tank	0	2821 (111.1)	1156 (45.5)	1723 (67.8)	1483 (3269)	1351 (2979)	150 (6)	83/69
791 (209)	24/30			2081 (81.9)	1766 (3894)*	1635 (3604)*	508 (20)	
1317 (348)	48/50			2386 (93.9)	1882 (4150)*	1751 (3860)*	813 (32)	
80REOZJF State Code Fuel Tank †								
814 (215)	24/31	3400 (133.9)	1156 (45.5)	2111 (83.1)	1996 (4400)*	1864 (4110)*	432 (17)	83/69
1571 (415)	48/60			2441 (96.1)	2236 (4929)*	2104 (4639)*	762 (30)	
100REOZJF Standard Tank								
No Tank	0	2821 (111.1)	1156 (45.5)	1723 (67.8)	1592 (3510)	1461 (3220)	150 (6)	82/69
791 (209)	24/25			2081 (81.9)	1875 (4134)*	1744 (3844)*	508 (20)	
1696 (448)	48/54			2386 (93.9)	2070 (4564)*	1939 (4274)*	813 (32)	
100REOZJF State Code Fuel Tank †								
814 (215)	24/26	3400 (133.9)	1156 (45.5)	2111 (83.1)	2105 (4641)*	1974 (4351)*	432 (17)	82/69
1571 (415)	48/50			2441 (96.1)	2345 (5170)*	2214 (4880)*	762 (30)	

Note: Data in table is for reference only, refer to the respective ADV drawings for details.

* Max. weight includes the generator set (wet) using the largest alternator option, enclosure with acoustic insulation added, silencer, and tank (no fuel).

† State code fuel tank specifications (height and weight) include I-beam option.

‡ Log average sound pressure level of 8 measured positions around the perimeter of the unit at a distance of 7 m (23 ft). Refer to TIB-114 for details.

Enclosure and Subbase Fuel Tank Specifications (continued)

Fuel Tank Capacity, L (gal.)	Est. Fuel Supply Hours at 60 Hz with Full Load, Nominal/Actual	Enclosure and Subbase Fuel Tank					Fuel Tank Height (or additional skid height with no tank), mm (in.)	Sound Pressure Level at 60 Hz with Full Load, Weather/ Sound, dB(A)‡
		Max. Dimensions, mm (in.)			Max. Weight, kg (lb.) *			
		Length	Width	Height	With Steel Enclosure	With Aluminum Enclosure		
125REOZJG Standard Fuel Tank								
No Tank	0	3532 (139.0)	1153 (45.4)	1739 (68.5)	1651 (3632)	1515 (3333)	0 (0)	87/73
1128 (298)	24/30			2222 (87.5)	2400 (5280)*	2264 (4981)*	483 (19)	
2207 (583)	48/58			2653 (104.4)	2751 (6052)*	2615 (5753)*	914 (36)	
125REOZJG State Code Fuel Tank †								
1196 (316)	24/31	4414 (173.8)	1153 (45.4)	2328 (91.7)	2382 (5240)*	2446 (4941)*	483 (19)	87/73
2252 (595)	48/60			2683 (105.6)	2654 (5839)*	2500 (5511)*	838 (33)	
150REOZJF Standard Fuel Tank								
No Tank	0	3532 (139.0)	1153 (45.4)	1739 (68.5)	1860 (4101)	1724 (3800)	0 (0)	86/75
1128 (298)	24/25			2222 (87.5)	2609 (5752)*	2473 (5452)*	483 (19)	
2207 (583)	48/49			2653 (104.4)	2960 (6526)*	2824 (6226)*	914 (36)	
150REOZJF State Code Fuel Tank †								
1196 (316)	24/27	4414 (173.8)	1153 (45.4)	2328 (91.7)	2591 (5712)*	2455 (5412)*	483 (19)	86/75
2252 (595)	48/50			2683 (105.6)	2890 (6361)*	2727 (6012)*	838 (33)	
180REOZJG Standard Fuel Tank								
No Tank	0	4094 (161.2)	1338 (52.7)	2038 (80.2)	1928 (4250)	1780 (3925)	0 (0)	85/72
1514 (400)	24/31			2521 (99.3)	2861 (6307)*	2713 (5981)*	483 (19)	
2869 (758)	48/58			2927 (115.2)	3255 (7176)*	3107 (6850)*	889 (35)	
180REOZJG State Code Fuel Tank †								
1556 (416)	24/32	5008 (197.2)	1338 (52.7)	2601 (102.4)	3162 (6971)*	3014 (6646)*	457 (18)	85/72
2896 (765)	48/59			2906 (114.4)	3488 (7690)*	3340 (7363)*	762 (30)	
200REOZJF Standard Fuel Tank								
No Tank	0	4094 (161.2)	1338 (52.7)	2025 (79.7)	2309 (5090)	2161 (4764)	0 (0)	87/75
1514 (400)	24/26			2508 (98.7)	3242 (7147)*	3094 (6821)*	483 (19)	
2869 (758)	48/49			2914 (114.7)	3636 (8016)*	3488 (7690)*	889 (35)	
200REOZJF State Code Fuel Tank †								
1575 (416)	24/27	5008 (197.2)	1338 (52.7)	2588 (101.9)	3543 (7811)*	3395 (7485)*	457 (18)	87/75
2896 (765)	48/50			2893 (113.9)	4050 (8930)*	3721 (8203)*	762 (30)	

Note: Data in table is for reference only, refer to the respective ADV drawings for details.

* Max. weight includes the generator set (wet) using the largest alternator option, enclosure with acoustic insulation added, silencer, and tank (no fuel).

† State code fuel tank specifications (height and weight) include I-beam option.

‡ Log average sound pressure level of 8 measured positions around the perimeter of the unit at a distance of 7 m (23 ft). Refer to TIB-114 for details.

Enclosure and Subbase Fuel Tank Specifications (continued)

Fuel Tank Capacity, L (gal.)	Est. Fuel Supply Hours at 60 Hz with Full Load, Nominal/ Actual	Enclosure and Subbase Fuel Tank					Fuel Tank Height (or additional skid height with no tank), mm (in.)	Sound Pressure Level at 60 Hz with Full Load, Weather/ Sound, dB(A)‡
		Max. Dimensions, mm (in.)			Max. Weight, kg (lb.) *			
		Length	Width	Height	With Steel Enclosure	With Aluminum Enclosure		
230REOZJE Standard Fuel Tank								
No Tank	0	4121 (162.3)	1338 (52.7)	2153 (84.8)	2654 (5850)	2540 (5600)	260 (10)	87/75
1787 (472)	24/29			2655 (104.5)	3561 (7850)*	3447 (7600)*	762 (30)	
230REOZJE State Code Fuel Tank †								
2101 (555)	24/34	5009 (197.2)	1338 (52.7)	2894 (113.9)	3895 (8587)*	3782 (8337)*	635 (25)	87/75
3573 (944)	48/58	5325 (209.7)		3173 (124.9)	4504 (9930)*	4391 (9680)*	914 (36)	
250REOZJE Standard Fuel Tank								
No Tank	0	4121 (162.3)	1338 (52.7)	2153 (84.8)	2699 (5950)	2585 (5700)	260 (10)	89/75
1787 (472)	24/26			2655 (104.5)	3606 (7950)*	3493 (7700)*	762 (30)	
250REOZJE State Code Fuel Tank †								
2101 (555)	24/31	5009 (197.2)	1338 (52.7)	2894 (113.9)	3940 (8687)*	3827 (8437)*	635 (25)	89/75
3573 (944)	48/53	5325 (209.7)		3173 (124.9)	4550 (10030)*	4436 (9780)*	914 (36)	
275REOZJE Standard Fuel Tank								
No Tank	0	4121 (162.3)	1338 (52.7)	2153 (84.8)	2835 (6250)	2722 (6000)	260 (10)	89/75
1787 (472)	24/24			2655 (104.5)	3742 (8250)*	3629 (8000)*	762 (30)	
275REOZJE State Code Fuel Tank †								
2101 (555)	24/28	5009 (197.2)	1338 (52.7)	2894 (113.9)	4076 (8987)*	3963 (8737)*	635 (25)	89/75
3573 (944)	48/48	5325 (209.7)		3173 (124.9)	4686 (10330)*	4572 (10080)*	914 (36)	
300REOZJ Standard Fuel Tank								
No Tank	0	4121 (162.3)	1338 (52.7)	2153 (84.8)	2835 (6250)	2722 (6000)	260 (10)	89/75
2067 (546)	24/24			2731 (107.5)	3770 (8311)*	3656 (8061)*	838 (33)	
300REOZJ State Code Fuel Tank †								
2101 (555)	24/25	5009 (197.2)	1338 (52.7)	2894 (113.9)	4076 (8987)*	3963 (8737)*	635 (25)	89/75
4065(1074)	48/48	5588 (220.0)		3173 (124.9)	4644 (10238)*	4530 (9988)*	914 (36)	

Note: Data in table is for reference only, refer to the respective ADV drawings for details.

* Max. weight includes the generator set (wet) using the largest alternator option, enclosure with acoustic insulation added, silencer, and tank (no fuel).

† State code fuel tank specifications (height and weight) include I-beam option.

‡ Log average sound pressure level of 8 measured positions around the perimeter of the unit at a distance of 7 m (23 ft). Refer to TIB-114 for details.

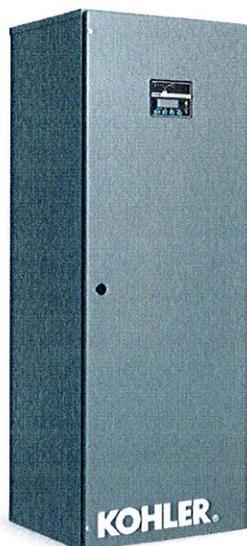
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Transfer Switch Standard Features

- UL 1008 listed at 480 VAC file #E58962 (automatic), #E86894 (nonautomatic)
- CSA certification available at 600 VAC
- IBC and OSHPD seismic certification available
- Available in 2, 3, or 4 pole configurations
- Electrically operated, mechanically held mechanism
- High withstand and close-on ratings
- Design suitable for emergency and standby applications on all classes of load, 100% tungsten rated through 400 amps
- Silver alloy main contacts
- Gold-flashed engine start contacts rated 2 amps @ 30 VDC/250 VAC
- Front-accessible contacts for easy inspection
- Front-replaceable main and arcing contacts (800-4000 amps)
- Reliable, field-proven solenoid mechanism
- Switching mechanisms lubricated for the expected life of the transfer switch
- Internal manual operating handle
- Main shaft auxiliary position-indicating contacts rated 10 amps @ 32 VDC/250 VAC
- NEMA type 1, 12, 3R, 4, and 4X enclosures available
- Standard one-year limited warranty. Extended limited warranties are available.

Available Controllers

- Decision-Maker® MPAC 1200
- Decision-Maker® MPAC 1500

Ratings

Model	Current	Voltage, Frequency
KCS	30-4000 amps	208-600 VAC 50/60 Hz
KCP	150-4000 amps	
KCC	150-4000 amps	

Standard-Transition Models (KCS)

- Standard-transition operation with either automatic or non-automatic control
- Standard-transition transfer time less than 100 milliseconds (6 cycles @ 60 Hz)
- Double-throw, mechanically interlocked design (break-before-make power contacts)
- Solid, switched, or overlapping (make-before-break) neutral

Programmed-Transition Models (KCP)

- Programmed-transition operation with either automatic or non-automatic control
- Programmed-transition operation provides a center OFF position that allows residual voltages in the load circuits to decay
- Programmable OFF time
- Double-throw, mechanically interlocked design (break-before-make power contacts)
- Solid or switched neutral

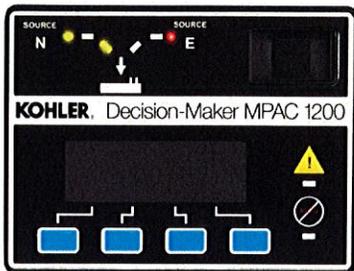
Closed-Transition Models (KCC)

- Closed-transition transfer switches operate with no power interruption during transfer and retransfer between two live sources
- Source parallel times are less than 100 milliseconds (6 cycles @ 60 Hz)
- Adjustable extended transfer time relay (ensure that the setting complies with applicable codes)
- Solid or switched neutral

Available Automatic Transfer Switch Controllers

Select one of the following controllers for your automatic transfer switch.

Decision-Maker® MPAC 1200 Controller



- LCD display, 4 lines x 20 characters, backlit
- Complete programming and viewing capability at the door using the keypad and LCD display
- LED indicators: Source available, transfer switch position, service required (fault), and "not in auto"
- Programmable voltage and frequency pickup and dropout settings
- Programmable time delays
- Programmable generator exerciser
- Time-based load control
- Two programmable inputs and two programmable outputs
- Up to four I/O extension modules available
- Modbus communication standard
- RS-485 communication standard
- Ethernet communication optional

For more information about Decision-Maker® MPAC 1200 features and functions, see specification sheet G11-127.

Decision-Maker® MPAC 1500 Controller



- LCD display, 4 lines x 20 characters, backlit
- Complete programming and viewing capability at the door using the keypad and LCD display
- LED indicators: Source available, transfer switch position, service required (fault), and "not in auto"
- Programmable voltage and frequency pickup and dropout settings
- Programmable time delays
- Programmable generator exerciser
- Time-based load control
- Current-based load control (current-sensing kit required)
- Two programmable inputs and two programmable outputs
- Up to four I/O extension modules available
- Modbus communication standard
- RS-485 communication standard
- Ethernet communication standard
- Three-source system
- Prime power

For more information about Decision-Maker® MPAC 1500 features and functions, see specification sheet G11-128.

Application Data

Environmental Specifications	
Operating Temperature	-20°C to 70°C (-4°F to 158°F)
Storage Temperature	-40°C to 85°C (-40°F to 185°F)
Humidity	5% to 95% noncondensing

Input and Output Connection Specifications	
Component	Wire Size Range
Main board I/O terminals	#12-24 AWG
I/O module terminals	#14-24 AWG

Auxiliary Position Indicating Contacts (rated 10 amps @ 32 VDC/250 VAC)			
Switch Rating, Amps	Number of Contacts Indicating Normal, Emergency		
	KCS	KCP	KCC
30-230	2, 2	N/A	N/A
260-600	8, 8	—	—
150-600	—	8, 8	7, 7
800-1200	8, 8	8, 8	7, 7
1600-4000	8, 8	7, 7	6, 6

Extended Transfer Time Adjustable Relay (Model KCC only)	
Power	12 or 24 VDC (customer-supplied)
Connections	12-20 AWG
Output type	Relay contacts, DPDT (2 form C)
Rating	10 amps max. resistive at 240 VAC
Note: Customer-supplied shunt trip on emergency source circuit breaker is required.	

Source Synchronization Settings (Model KCC)		
Parameter	Default	Adjustment Range
Voltage differential	5%	0-5%
Frequency differential	0.1 Hz	0-0.3 Hz
Phase angle	10 deg.	0-10 deg.

Cable Sizes

Note: Cable size data is subject to change. Refer to the transfer switch dimension drawings and wiring diagrams for planning and installation.

UL-Listed Solderless Screw-Type Terminals for External Power Connections				
Range of Wire Sizes, Copper or Aluminum ‡				
Model	Switch Rating, Amps	Normal, Emergency, and Load (per phase)	Neutral (3-pole)	Ground
KCS	30-150	(1) #14 AWG to 4/0 AWG	(3) #14 to 4/0	(3) #6 to 3/0
	200	(1) #14 AWG to 4/0 AWG <i>Cu only</i>	(3) #14 to 4/0	(3) #6 to 3/0
	230 (208-480 V)			
	230 (600 V)	(1) #4 AWG to 600 KCMIL or (2) 1/0 to 250 KCMIL	(3) #4 AWG to 600 KCMIL or (6) 1/0 to 250 KCMIL	(3) #4 AWG to 600 KCMIL or (6) 1/0 to 250 KCMIL
	260-400			
KCP KCC	150-400	(1) #4 AWG to 600 KCMIL or (2) 1/0 to 250 KCMIL	(3) #4 AWG to 600 KCMIL or (6) 1/0 to 250 KCMIL	(3) #4 AWG to 600 KCMIL or (6) 1/0 to 250 KCMIL
KCS KCP KCC	600	(2) #2 AWG to 600 KCMIL	(6) #2 AWG to 600 KCMIL	(3) #4 AWG to 600 KCMIL or (6) 1/0 to 250 KCMIL
	800-1000	(4) 1/0 AWG to 750 KCMIL	(12) #2 AWG to 600 KCMIL	
	1200 (NEMA 3R)			
	1200 (NEMA 1)	(4) 1/0 AWG to 750 KCMIL	(16) 1/0 to 750 KCMIL	(3) #4 to 500 KCMIL
	1600-2000 F † (NEMA 3R)	(6) 1/0 AWG to 750 KCMIL	(24) 1/0 to 750 KCMIL	(3) #4 AWG to 600 KCMIL or (6) 1/0 to 250 KCMIL
	1600-2000	(6) 1/0 AWG to 750 KCMIL	(24) 1/0 to 750 KCMIL	(3) #4 to 500 KCMIL
	2600-3000	(12) 1/0 AWG to 750 KCMIL	(36) 1/0 to 750 KCMIL	
4000	(12) 1/0 AWG to 750 KCMIL	(36) 1/0 AWG to 750 KCMIL	(18) 1/0 AWG to 750 KCMIL	

† F = Front connected
‡ Use 75°C minimum Cu/Al wire for power connections.

Withstand and Close-On Ratings (WCR)

Standard, Programmed, and Closed-Transition Models

Maximum current in RMS symmetrical amperes when coordinated with customer-supplied fuses or circuit breakers. All values are available symmetrical RMS amperes and tested in accordance with the withstand and close-on requirements of UL 1008. Application requirements may permit higher withstand ratings for certain size switches. Contact the factory for assistance.

Model	Switch Rating, Amps	Withstand Current Ratings in RMS Symmetrical Amperes							Short Time Ratings (sec.) ‡							
		Current-Limiting Fuses				Time-Based Rating *			480 V Max.				600 V Max.			
		Amps @ 480 V	Amps @ 600 V	Amps, Max.	Fuse Class	Amps @ 240 V	Amps @ 480 V	Amps @ 600 V	.1	.13	.3	.5	.1	.13	.3	.5
KCS	30-150	200,000	35,000	200	J	10,000	10,000	10,000	—				—			
		35,000	35,000	200	RK1	10,000	10,000	10,000	—				—			
	200	200,000	—	200	J	10,000	10,000	—	—				—			
	230 (480V)	100,000	—	300	J	10,000	10,000	—	—				—			
	230 (600V)	200,000	200,000	600	J	65,000	42,000 †	35,000	—				—			
	260			800	L	65,000	42,000 †	35,000	—				—			
	400								—				—			
	600								—				—			
	800-1200	200,000	200,000	1600	L	50,000	50,000	50,000	36,000	—		36,000	—			
	1600-2000 F	200,000	200,000	2500	L	85,000	85,000	85,000	—				—			
1600-2000 S	200,000	200,000	3000	L	100,000	100,000	100,000	42,000	—		42,000	—				
2600	200,000	200,000	4000	L	100,000	100,000	100,000	42,000	—		42,000	—				
3000																
4000	200,000	200,000	5000	L	100,000	100,000	100,000	85,000	65,000	65,000						
KCP	150	200,000	200,000	600	J	65,000	42,000 †	35,000	—				—			
	225			800	L	65,000	42,000 †	35,000	—				—			
	260									—				—		
	400							—				—				
	600							—				—				
	800-1200	200,000	200,000	1600	L	50,000	50,000	50,000	36,000	—		36,000	—			
	1600-2000 F	200,000	200,000	2500	L	85,000	85,000	85,000	—				—			
1600-2000 S	200,000	200,000	3000	L	100,000	100,000	100,000	42,000	—		42,000	—				
2600	200,000	200,000	4000	L	100,000	100,000	100,000	42,000	—		42,000	—				
3000																
4000	200,000	200,000	5000	L	100,000	100,000	100,000	85,000	65,000	65,000						
KCC	150	200,000	200,000	600	J	65,000	42,000 †	35,000	—				—			
	260			800	L	65,000	42,000 †	35,000	—				—			
	400									—				—		
	600							—				—				
	800-1200	200,000	200,000	1600	L	50,000	50,000	50,000	36,000	—		36,000	—			
	1600-2000 F	200,000	200,000	2500	L	85,000	85,000	85,000	—				—			
1600-2000 S	200,000	200,000	3000	L	100,000	100,000	100,000	42,000	—		42,000	—				
2600	200,000	200,000	4000	L	100,000	100,000	100,000	42,000	—		42,000	—				
3000																
4000	200,000	200,000	5000	L	100,000	100,000	100,000	85,000	65,000	65,000						

* Based on 0.025 seconds (approximately 1.5 cycles) for 30-230 amps and 0.050 seconds for 260-4000 amps. Applicable to breakers with instantaneous trip elements.
† Applicable to 2-pole, 3-pole, and conventional 4-pole switches only. Overlapping neutral switches have "any" breaker ratings of 35,000 A, 0.050 seconds at 480 V.
‡ Short time ratings are provided for applications involving breakers that utilize trip delay settings for system selective coordination.

Ratings with Specific Manufacturers' Circuit Breakers

The following charts list power switching device withstand and close-on ratings (WCR) in RMS symmetrical amperes for specific manufacturers' circuit breakers. Circuit breakers are supplied by the customer.

Model	Switch Rating, amps	WCR, amps RMS	Volts, Max.	Molded-Case Circuit Breakers		
				Manufacturer	Type or Class	Max. Size, amps
KCS	30	22,000	480	GE	THED	40
	70	42,000	240	Square D	QG, QJ	90
		22,000	480	GE	THED	90
	100	42,000	240	Square D	QG, QJ	125
		22,000	480	GE	THED	150
	150	65,000	240	Square D	JG, JJ, JL	200
		42,000			QG, QJ	200
		25,000	480	Square D	JG, JJ, JL	200
		22,000			GE	THED
	200	65,000	240	Square D	JG, JJ, JL	250
		42,000			QG, QJ	225
	230	25,000	480		JG, JJ, JL	250
	230	42,000	600	Eaton	JGC	250
					KDC	400
					LDC, CLDC	600
				GE	TBC4	400
TBC6, SGL1, SGL4, SGL6, SGP1, SGP4, SGP6					600	
TBC8, TKL4V, TKL8S-12S, SKL8, SKP8					800	
Siemens/ITE	HLMD, HLMXD, HMXD, SHMD	800				
KCP KCC	150	50,000	Eaton	HJD, JDC, JGH, JGC	250	
				HKD, CHKD, KDC	400	
				HLD, CHLD, LDC, CLDC	600	
				SFL, SFP	250	
			GE	SGL1, SGL4, SGP1, SGP4, TJL4V, TJL1S-6S, TBC6	600	
				HFD, HFXD	250	
			Siemens/ITE	HJD, HJXD, SHJD	400	
				KC	250	
	Square D	CK400N, CK400NN	400			
		JGC	250			
	42,000	600	Eaton	KDC	400	
				LDC, CLDC	600	
				GE	SGL1, SGL4, SGP1, SGP4	600
			Eaton	HJD, JDC, JGH, JGC	250	
HKD, CHKD, KDC				400		
HLD, CHLD, LDC, CLDC				600		
GE	MDL, CMDL, HMDL, CHMDL, NGS, NGH, NGC	800				
	SFL, SFP	250				
	TBC4	400				
	SGL1, SGL4, SGL6, SGP1, SGP4, SGP6, TBC6, TJL4V, TJL1S-6S	600				
Siemens/ITE	SKL8, SKP8, SKH8, TBC8, TKL4V, TKH8S-12S	800				
	HFD, HFXD	250				
	HJD, HJXD, SHJD	400				
	HLD	600				
Square D	HLMD, HLMXD, HMG, HMD, HMXD, LMD, LMXD, MXD, SMD, SHMD	800				
	KC	250				
	CK400N, CK400NN	400				
	LC	600				
225 (KCP) 260	50,000	480	Eaton	CK800N, CK800NN	800	
				JGC	250	
				KDC	400	
			GE	LDC, CLDC	600	
				TBC4	400	
				TBC6, SGL1, SGL4, SGL6, SGP1, SGP4, SGP6	600	
Siemens/ITE	TBC8, TKL4V, TKL8S-12S, SKL8, SKP8	800				
42,000	600	Eaton	HLMD, HLMXD, HMXD, SHMD	800		
			JGC	250		
			KDC	400		
		GE	LDC, CLDC	600		
			TBC4	400		
			TBC6, SGL1, SGL4, SGL6, SGP1, SGP4, SGP6	600		
Siemens/ITE	TBC8, TKL4V, TKL8S-12S, SKL8, SKP8	800				
KCS KCP KCC	225 (KCP) 260	50,000	480	Siemens/ITE	HLMD, HLMXD, HMXD, SHMD	800

Ratings with Specific Manufacturers' Circuit Breakers, continued

Model	Switch Rating, amps	WCR, amps RMS	Volts, Max.	Molded-Case Circuit Breakers		
				Manufacturer	Type or Class	Max. Size, amps
KCS KCP KCC	400	50,000	480	Eaton	HKD, CHKD, KDC	400
					HLD, CHLD, LDC, CLDC	600
					MDL, CMDL, HMDL, CHMDL, NGS, NGH, NGC	800
				GE	TBC4	400
					SGL1, SGL4, SGL6, SGP1, SGP4, SGP6, TBC6, TJJ4V, TJJ1S-6S	600
					SKH8, SKL8, SKP8, TBC8, TKL4V, TKH8S-12S	800
				Siemens/ITE	HJD, HJXD, SHJD	400
		HLD	600			
		HLMXD, HLMXD, HMG, HMD, HMXD, LMD, LMXD, MXD, SMD, SHMD	800			
		Square D	CK400N, CK400NN	400		
			LC	600		
			CK800N, CK800NN	800		
		42,000	600	Eaton	KDC	400
					LDC, CLDC	600
GE	TBC4			400		
	TBC6, SGL1, SGL6, SGP1, SGP4, SGP6			600		
	TBC8, TKL4V, TKL8S-12S, SKL8, SKP8			800		
Siemens/ITE	HLMXD, HLMXD, HMXD, SHMD			800		
KCS KCP KCC	600			50,000	480	Eaton
		MDL, CMDL, HMDL, CHMDL, NGS, NGH, NGC	800			
		GE	SGL1, SGL4, SGL6, SGP1, SGP4, SGP6, TBC6, TJJ4V, TJJ1S-6S			600
			SKH8, SKL8, SKP8, TBC8, TKL4V, TKH8S-12S			800
		Siemens/ITE	HLD			600
			HLMXD, HLMXD, HMD, HMG, HMXD, LMD, LMXD, MXD, SMD, SHMD			800
			HND, HNXD, HNG, SND, SHND			1200
		Square D	CK400N, CK400NN	400		
			LC	600		
			CK800N, CK800NN	800		
			MH, CK1200N, CK1200NN	1200		
		42,000	600	Eaton	LDC, CLDC	600
					TBCY	400
				GE	SGL1, SGL6, SGP1, SGP4, SGP6, TBC6	600
TBC8, TKL4V, TKL8S-12S, SKL8, SKP8	800					
Siemens/ITE	HLMXD, HLMXD, HMXD, SHMD			800		
SHND	1200					
KCS KCP KCC	800 1000 1200	65,000	480	Eaton	HLD	600
				GE	TB8	800
					TKL, SKL	1200
				Siemens/ITE	CLD6, HHL6, HHLXD6, HLD6, SCLD6, SHLD6	600
					CMD6, HMD6, SCMD6, SHMD6	800
					CND6, HND6, SCND6, SHND6	1200
				Square D	CPD6	1600
		MH Series 2	1000			
		PJ, PL	1200			
		RJ, RL	1600			
		600	Eaton	SE (LS Trip), SEH (LS Trip)	2500	
				Tri-Pac NB	800	
				Tri-Pac PB	1600	
		RDC	2500			
KCS KCP KCC	1600 2000	125,000	480	Square D	Masterpact NW-L	3000

Weights and Dimensions

Note: Always use the transfer switch dimension drawing for planning and installation. Weights and dimensions may vary for different configurations. See your local distributor for dimension drawings.

Weights and dimensions are shown for NEMA Type 1 enclosures, NEMA Type 3R enclosures and open units. Consult the factory for other enclosures.

Model	Amps	NEMA Type	Poles	Wires	Dimensions mm (in.)			Weight kg (lb.)			Dimension Drawing
					Height	Width	Depth	2-Pole	3-Pole	4-Pole	
KCS	30-200	1, 3R	2,3,4	3, 4	791 (31)	450 (18)	314 (12.4)‡	28 (62)	30 (65)	31 (68)	ADV-8566
	230 (208-480V)		2,3,4	3, 4	1223 (48)	560 (22)	362 (14.3)‡	52 (115)	56 (123)	59 (131)	ADV-8568
	230 (600 V) 260-600		2,3,4	3, 4	1702 (67)	610 (24)	514 (20.2)‡	179 (395)	183 (403)	188 (414)	ADV-8570
	800		2,3,4	3, 4	1932 (76)*	864 (34)	515 (20.3)‡	220 (485)	231 (510)	238 (525)	ADV-8572
	1000	1	3,4	4	1932 (76)*	864 (34)	515 (20.3)‡	—	231 (510)	238 (525)	ADV-8572
	1200		3,4	4	2286 (90)	963 (38)	688 (27.1)	—	356 (785)	379 (835)	ADV-8574
	1600-2000F †	3R	3,4	4	2286 (90)	940 (37)	717 (28.2)	—	356 (785)	379 (835)	ADV-8575
		1	3,4	4	2286 (90)	963 (38)	688 (27.1)	—	472 (1040)	494 (1090)	ADV-8577
	1600-2000	3R	3,4	4	2286 (90)	940 (37)	869 (34.2)	—	356 (785)	379 (835)	ADV-8578
		1	3,4	4	2286 (90)	963 (38)	1220 (48)	—	472 (1040)	494 (1090)	ADV-8579
	2600-3000	3R	3,4	4	2286 (90)	940 (37)	1434 (56.4)	—	472 (1040)	494 (1090)	ADV-8580
		1	3,4	4	2286 (90)	963 (38)	1524 (60)	—	649 (1430)	679 (1495)	ADV-8581
	4000	3R	3,4	4	2286 (90)	940 (37)	1738 (68.4)	—	649 (1430)	679 (1495)	ADV-8582
		1	3,4	4	2311 (91)	1524 (60)	1836 (72.3)	—	975 (2149)	1056 (2328)	ADV-8583
3R	3,4	4	2529 (100)	1606 (63)	2310 (91)	—	1436 (3165)	1523 (3357)			
KCS	30-200	Open Unit §	2,3,4	3, 4	787 (31)	445 (18)	296 (11.6)	8 (17)	9 (20)	11 (23)	ADV-7182
	230 (208-480V)		2,3,4	3, 4	1219 (48)	457 (18)	330 (13.0)	17 (37)	21 (45)	24 (53)	
	230 (600V) 260-600		2,3,4	3, 4	1422 (56)	610 (24)	362 (14.3)	31 (68)	34 (74)	36 (80)	
	800		2,3,4	3, 4	1829 (72)	864 (34)	508 (20)	68 (150)	78 (170)	90 (196)	
	1000		3,4	4	1829 (72)	864 (34)	508 (20)	—	78 (170)	90 (196)	
	1200		3,4	4	2210 (87)	965 (38)	584 (23)	—	78 (170)	90 (196)	
	1600-2000F †		3,4	4	2210 (87)	965 (38)	635 (25)	—	190 (420)	213 (470)	
	1600-2000		3,4	4	2286 (90)	965 (38)	1219 (48)	—	190 (420)	213 (470)	
2600-3000	3,4	4	2286 (90)	965 (38)	1524 (60)	—	213 (470)	243 (535)			
KCP KCC	150-600	1, 3R	2,3,4	3, 4	1702 (67)	610 (24)	514 (20.2)‡	179 (395)	183 (403)	188 (414)	ADV-8570
	800	1, 3R	2,3,4	3, 4	1932 (76)*	864 (34)	515 (20.3)‡	220 (485)	231 (510)	238 (525)	ADV-8572
	1000	1, 3R	2,3,4	4	1932 (76)*	864 (34)	515 (20.3)‡	220 (485)	231 (510)	238 (525)	ADV-8572
	1200	1	3,4	4	2286 (90)	963 (38)	688 (27)	—	463 (1020)	485 (1070)	ADV-8574
		3R	3,4	4	2286 (90)	940 (37)	717 (28.2)	—	463 (1020)	485 (1070)	ADV-8575
	1600-2000F †	1	3,4	4	2286 (90)	963 (38)	688 (27)	—	533 (1175)	556 (1225)	ADV-8577
		3R	3,4	4	2286 (90)	940 (37)	869 (34.2)	—	533 (1175)	556 (1225)	ADV-8578
	1600-2000	1	3,4	4	2286 (90)	963 (38)	1220 (48)	—	533 (1175)	556 (1225)	ADV-8579
		3R	3,4	4	2286 (90)	940 (37)	1434 (56.4)	—	533 (1175)	556 (1225)	ADV-8580
	3000	1	3,4	4	2286 (90)	963 (38)	1524 (60)	—	735 (1620)	765 (1685)	ADV-8581
3R		3,4	4	2286 (90)	940 (37)	1738 (68.4)	—	735 (1620)	765 (1685)	ADV-8582	
4000	1	3,4	4	2311 (91)	1524 (60)	1836 (72.3)	—	975 (2149)	1056 (2328)	ADV-8583	
	3R	3,4	4	2528 (100)	1606 (63)	2310 (91)	—	1436 (3165)	1523 (3357)	ADV-8583	
KCP	150-600	Open Unit §	2,3,4	3, 4	1422 (56)	610 (24)	362 (14.3)	38 (84)	41 (90)	44 (96)	ADV-7182
	800		2,3,4	3, 4	1829 (72)	864 (34)	508 (20)	80 (175)	94 (205)	108 (235)	
	1000		2,3,4	4	1829 (72)	864 (34)	508 (20)	80 (175)	94 (205)	108 (235)	
	1200		2,3,4	4	2210 (87)	965 (38)	584 (23)	80 (175)	94 (205)	108 (235)	
	1600-2000F †		3,4	4	2210 (87)	965 (38)	635 (25)	—	252 (555)	274 (605)	
	1600-2000		3,4	4	2286 (90)	965 (38)	1219 (48)	—	252 (555)	274 (605)	
	2600-3000		3,4	4	2286 (90)	965 (38)	1524 (60)	—	300 (660)	329 (725)	
2600-3000	3,4	4	2286 (90)	965 (38)	1524 (60)	—	300 (660)	329 (725)			

* Includes mounting feet

† F = Front connected

‡ On 30-1000 amp models, the NEMA type 3R enclosures have a security cover on the controller that extends 54 mm (2.1 in.) beyond the door.

§ Dimensions shown for open units are the minimum required enclosure size. Open unit weights are shipping weights for the contactor only.

Codes and Standards

The ATS meets or exceeds the requirements of the following specifications:

- CSA C22.2 No. 178 certification 208 - 600 VAC available, file #LR58301
- EN61000-4-4 Fast Transient Immunity Severity Level 4
- EN61000-4-5 Surge Immunity Class 4 (voltage sensing and programmable inputs only)
- IEC Specifications for EMI/EMC Immunity:
 - CISPR 11, Radiated Emissions
 - IEC 1000-4-2, Electrostatic Discharge
 - IEC 1000-4-3, Radiated Electromagnetic Fields
 - IEC 1000-4-4, Electrical Fast Transients (Bursts)
 - IEC 1000-4-5, Surge Voltage
 - IEC 1000-4-6, Conducted RF Disturbances
 - IEC 1000-4-8, Magnetic Fields
 - IEC 1000-4-11, Voltage Dips and Interruptions
- IEC 60947-6-1, Low Voltage Switchgear and Control Gear; Multifunction Equipment; Automatic Transfer Switching Equipment
- IEEE Standard 446, IEEE Recommended Practice for Emergency and Standby Power Systems for Commercial and Industrial Applications
- IEEE 472 (ANSI C37.90A) Ring Wave Test
- NEMA Standard ICS 10-2005, Electromechanical AC Transfer Switch Equipment
- NFPA 70, National Electrical Code
- NFPA 99, Essential Electrical Systems for Health Care Facilities
- NFPA 110, Emergency and Standby Power Systems
- Seismic certification in accordance with the International Building Code is available. (Accessory kit is required for seismic certification.)
 - IBC 2000, referencing ASCE 7-98 and ICC AC-156
 - IBC 2003, referencing ASCE 7-02 and ICC AC-156
 - IBC 2006, referencing ASCE 7-05 and ICC AC-156
 - IBC 2009, referencing ASCE 7-05 and ICC AC-156
 - IBC 2012, referencing ASCE 7-10 and ICC AC-156
- California OSHPD approval is available. (Accessory kit required.)
- Underwriters Laboratories UL 1008, Standard for Automatic Transfer Switches for Use in Emergency Standby Systems file #E58962 (automatic), #E86894 (nonautomatic)

Controller Accessories

See the controller specification sheets for more information.

Accessory Modules

- Alarm Module
- External Battery Supply Module
- Input/Output Module
- High-Power Input/Output Module

Controller Disconnect Switch

Ethernet Communications

Current Sensing Kit

Line-to-Neutral Voltage Monitoring

Padlockable User Interface Cover

Supervised Transfer Control Switch

Transfer Switch Accessories

Accessories are available either factory-installed or as loose kits, unless otherwise noted.

CSA Certification

Digital Meter

- Measure and display voltage, current, frequency, and power for both sources
- Programmable visual alarms for high voltage, low voltage, and high current
- Three digital outputs
- Serial port for optional network connections
- Password-protected programming menus
- Joystick operation
- Factory-installed

Export Packaging

Extended Limited Warranties

- 2-year basic
- 5-year basic
- 5-year comprehensive
- 10-year major components

Heater, Anti-Condensation

- Hygrostat-controlled 120 VAC strip heater (customer-supplied voltage source required)
- 100 or 250 watts (sized for enclosure)
- Protective 15 Amp circuit breaker

Surge Protection Device (SPD)

- SPD available for the normal source supply
- Surge protection reduces transient voltages to harmless levels
- Protection modes: L-L / L-N / L-G / N-G
- Replaceable phase and neutral cartridges for service
- Frequency: 50-60 Hz
- Operating Temperature Range: -40 to 176°F (-40 to 80°C)
- Remote contacts for customer-supplied status indicators:
 - Contacts: 1 NO, 1 NC
 - Min Load: 12VDC / 10 mA
 - Max. Load: 250 VAC / 1 A
 - Wire Size (max.): 16AWG
- Fuse protection: 30 amps / 600 V
- UL 1449, 3rd Edition for Type 2 applications
- IEC 61-643-1, 2nd Edition T2/11
- See additional SPD specifications below

Literature Kits

- Production literature kit (one set of literature is included with each transfer switch)
- Overhaul literature kit

Load Shed Kit

- Forced transfer from Emergency to OFF for programmed-transition models
- Customer-supplied signal (contact closure) is required for the forced transfer to OFF function
- Factory-installed

Neutral Assembly

- Available as loose kit for open units

RSA III Remote Serial Annunciator

- Monitors the generator set
- Monitors Normal and Emergency source status and connection
- Monitors ATS common alarm
- Allows remote testing of the ATS
- For more information, see specification sheet G6-139.

Seismic Certification

IBC Seismic Certification

- Certification depends on application and geographic location. Contact your distributor for details.
- Available for the KC model transfer switches with enclosures shown below:

ATS Size, Amps	Enclosure, NEMA Type:				
	1	3R	4	4X	12
30-1200	•	•	•	•	•
1600-4000	•	•			

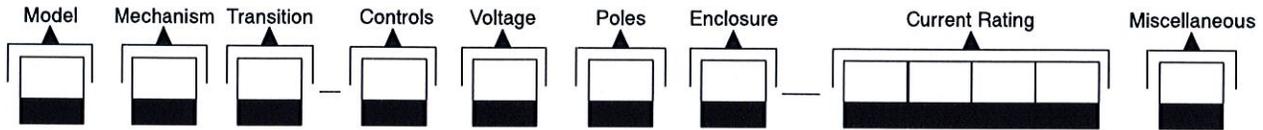
California OSHPD Approval

- Available for KC model transfer switches with NEMA 1 and NEMA 3R enclosures.

SPD Specifications

Nominal Voltage (V ± 15%)	Max. Discharge Current (kA)	Phase	Poles	UL VPR 3rd Ed (L-N/N-G/L-G) (kV)	Limiting Voltage, (L-N/N-G/L-G) (kV)		Short Circuit Withstand Current (kA)	Maximum Continuous Operating Voltage (VAC)
					at 3kAmps	at 10kAmp		
					240/120	40		
208/120	40	Wye	4	0.6 / 1.2 / 0.7	0.6 / 0.4 / 0.6	0.8 / 0.7 / 0.8	200	175 / 350
480/277	40	Wye	4	1.0 / 1.2 / 1.1	1.0 / 0.4 / 1.0	1.2 / 0.7 / 1.2	200	320 / 460
240/120	40	HLD	4	1.0 / 1.2 / 1.1	1.0 / 0.4 / 1.0	1.2 / 0.7 / 1.2	200	320 / 460
600/347	40	Wye	4	1.3 / 1.2 / 1.4	1.3 / 0.4 / 1.3	1.5 / 0.7 / 1.5	200	440 / 880

Model Designation



Record the transfer switch model designation in the boxes. The transfer switch model designation defines characteristics and ratings as explained below.

Sample Model Designation: KCS-DNTA-0400S

Model

K: Kohler

Mechanism

C: Standard (Any Breaker)

Transition

S: Standard

P: Programmed

C: Closed

Controller

A: Decision-Maker® MPAC 1200, Automatic

B: Decision-Maker® MPAC 1200, Non-Automatic

D: Decision-Maker® MPAC 1500, Automatic

F: Decision-Maker® MPAC 1500, Non-Automatic

Voltage/Frequency

C: 208 Volts/60 Hz **K:** 440 Volts/60 Hz

D: 220 Volts/50 Hz **M:** 480 Volts/60 Hz

F: 240 Volts/60 Hz **N:** 600 Volts/60 Hz

G: 380 Volts/50 Hz **P:** 380 Volts/60 Hz

H: 400 Volts/50 Hz **R:** 220 Volts/60 Hz

J: 416 Volts/50 Hz

Number of Poles/Wires

N: 2 Poles/3 Wires, Solid Neutral

T: 3 Poles/4 Wires, Solid Neutral

V: 4 Poles/4 Wires, Switched Neutral

W: 4 Poles/4 Wires, Overlapping Neutral

Enclosure

A: NEMA 1

D: NEMA 4

B: NEMA 12

F: NEMA 4X

C: NEMA 3R

G: Open Unit

Current, Amps

0030 0230 1200

0070 0260 1600

0104 **0400** 2000

0150 0600 2600

0200 0800 3000

0225 1000 4000

Connections

S: Standard

F: Front (1600 and 2000 amp only)

Note: Some selections are not available for every model. Contact your Kohler distributor for availability.

DISTRIBUTED BY:

Availability is subject to change without notice. Kohler Co. reserves the right to change the design or specifications without notice and without any obligation or liability whatsoever. Contact your local Kohler® Power Systems distributor for availability.

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PROPOSAL

PROJECT INFORMATION

TO	City of Burlington PD Attn: Brian Woods 224 E Jefferson St Burlington Wi	JOB TYPE JOB LOCATION	PREPARED ON 03/01/18 <i>This proposal valid for 15 days.</i>
PHONE	262-210-3260	JOB NAME	PREPARED BY
CELL		Customer PO#	AEI Proposal #
FAX		Date Accepted	
EMAIL	bwood@burlington-wi.gov		

DESCRIPTION OF THE LABOR, PRODUCTS, & MATERIAL INCLUDED IN THIS PROPOSAL:

- 1 Generac 100 Kw 120/208 diesel generator with 5 year warranty/ 400 AMP PSTS transfer switch
- Electrical materials for install i.e.conduit wire and fittings
- Generator pad with 5 tubes for support
- Generator startup
- Labor to install new generator and switch

Subtotal	\$57,387.04
Labor for landscaping in front of building to make a place for the generator	\$2,300.00
Labor to remove old generator from the basement	\$2,300.00
Sales Tax	\$1,702.97

PRICE

WE PROPOSE HEREBY TO FURNISH THE ABOVE FOR THE SUM OF: \$63,690.01
 PLUS AN ADDITIONAL 3% IF PAYMENT IS MADE BY CREDIT CARD

TERMS & ACCEPTANCE

SEE ADDENDUM A TO PROPOSAL ATTACHED

60% Down and 40% and completion

D6.7L

Diesel Generator Set

Standby Power Rating

100 kW, 60Hz

130 kW, 60Hz

150 kW, 60Hz

175 kW, 60Hz

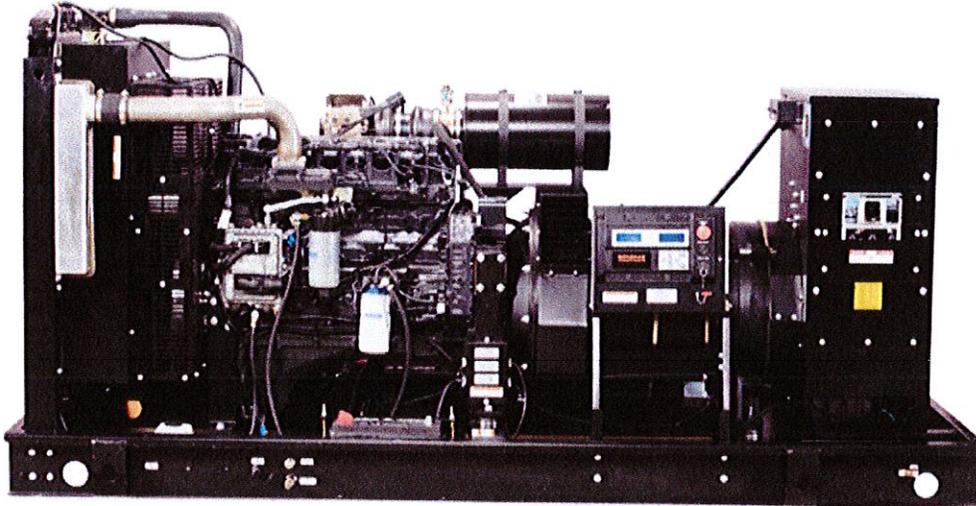


Image used for illustration purposes only

Codes or standards compliance listing may not be available with all configurations.

Consult factory for details.



UL2200, UL508, UL489, UL142



CSA C22.2, ULC S601



DIN

BS5514 and DIN 6271



SAE J1349



NFPA 37, 70, 99, 110



NEC 700, 701, 702, 708



ISO 9001, 8528, 3046, 7637



NEMA ICS10, MG1, 250, ICS6, AB1



ANSI C62.41

- Control System - NFPA 110 Level 1 Compliant
- Cooling System can operate at up to 50°C (122°F) Ambient
- Fast Starting - NFPA 110 Type 10 starting capable
- Ruggedness - Can accept full rated load in a single step in accordance with NFPA 110 for Level 1 systems
- Alternator - Low Temperature Rise (<120°C) alternators with permanent magnet excitation
- Prototype Tested - Prototype Testing performed in accordance with requirements of NFPA 110 for Level 1 systems

SINGLE SOURCE SERVICE RESPONSE from Generac's extensive dealer network provides parts and service know-how for the entire unit, from the engine to the smallest electronic component.

100 kW • 130 kW • 150 kW • 175 kW**STANDARD FEATURES****ENGINE SYSTEM****General**

- Oil Drain Extension
- Air Cleaner
- Fan Guard
- Stainless Steel Flexible Exhaust Connection
- Factory Filled Oil and Coolant
- Radiator Duct Adapter (Open Set Only)
- Critical Exhaust Silencer (Enclosed Only)
- Engine Block Heater, Factory Installed (1500W, 120W)

Fuel System

- Fuel Shutoff Solenoid
- Primary Fuel Filter

Cooling System

- Closed Coolant Recovery System
- UV/Ozone Resistant Hoses
- Factory-Installed Radiator
- 50/50 Ethylene Glycol Antifreeze
- Radiator Drain Extension

Engine Electrical System

- Battery Charging Alternator
- Battery Cables
- Battery Tray
- Rubber-Booted Engine Electrical Connections

GENERATOR SET

- Internal Genset Vibration Isolation
- Separation of Circuits - High/Low Voltage
- Separation of Circuits - Multiple Breakers
- Wrapped Exhaust Piping
- Standard Factory Testing
- 2 Year Limited Warranty (Standby Rated Units)
- Silencer Mounted in the Discharge Hood (enclosed units only)
- 120V GFCI and 240V Outlets

TANKS (If Selected)

- UL142/ULC S601
- Emergency Vent
- Double Wall Construction
- Sloped Top and Bottom
- Factory Pressure Tested
- Rupture Basin Alarm
- Electronic and Visual Fuel Level Indication

ALTERNATOR SYSTEM

- Class H Insulation Material
- 2/3 Pitch
- Skewed Stator
- Permanent Magnet Excitation System
- Sealed Bearings
- Amortisseur Winding
- Full Load Capacity Alternator

ENCLOSURE (If Selected)

- Rust-Proof Fasteners with Nylon Washers to Protect Finish
- High Performance Sound-Absorbing Material (Sound Attenuated Enclosures)
- Gasketed Doors
- Stamped Air-Intake Louvers
- Upward Facing Discharge Hoods (Radiator and Exhaust)
- Stainless Steel Lift Off Door Hinges
- Stainless Steel Lockable Handles
- RhinoCoat™ - Textured Polyester Powder Coat Paint

OPTIONAL FEATURES**Available Voltages**

- 120/240V 1-Phase
- 120/208V 3-Phase
- 120/240V 3-Phase
- 277/480V 3-Phase

Engine Options and Accessories

- Two-Stage Air Cleaner
- Air Filter Restriction Indicator
- Oil Temperature Indication and Alarms
- Oil Pan Heater
- Critical Exhaust Silencer (Open Set Only) *

Alternator Accessories

- Alternator Anti-Condensation Heater

Battery/Charger Options

- Battery - Group 31, Factory Installed
- 10 Amp Automatic Float/Equalize Battery Charger
- Battery Warmer, Factory Installed

Tanks

- Extended Fill and Vent
- Tank Risers
- Stainless Steel Fuel Lines
- Vent Extensions (12' Above Grade)

Main Line Circuit Breaker Options (MLCB)

(Not all circuit breaker ratings available in options; consult factory)

- Standard MLCB (80%, Thermal-Magnetic)
- MLCB with 12VDC Shunt Trip and Auxiliary Contacts
- 100% Rated MLCB
- Electronic Trip (LSI) MLCB
- Optional Size MLCB
- Bus Bar Only (No MLCB)
- Dual MLCBs or MLCB and Bus Bar

Enclosure Options and Accessories

- Weather Protected Enclosure
- Level 1 Sound Attenuated Enclosure
- Level 2 Sound Attenuated Enclosure
- Level 2 Sound Attenuated Enclosure with Motorized Dampers
- All enclosures available in steel or aluminum
- Enclosure Heater (Only Available with Motorized Dampers)
- Damper Actuator Position Alarm (Available only with Level 2 Sound Attenuated Enclosure with Motorized Dampers)
- Door Open Alarm Switch
- Universal voltage AC/DC Light Kit

Control System Options and Accessories

- Engine Run Relay
- Ground Fault Annunciation
- 21 Light Remote Annunciator *
- 21 Light Remote Annunciator with 8 Function Alarm Assembly Relay *
- 8 Function Alarm Relay Panel *
- 16 Function Alarm Relay Panel *
- Remote Emergency Stop-Break Glass *
- Remote Emergency Stop-Surface Mount *
- Remote Emergency Stop-Flush Mount *
- 8 Position Auxiliary Load Center
- Extended 2 Hour Rated Power Factor Testing

Warranty Options:

- 2 Year Extended Limited Warranty
- 5 Year Basic Limited Warranty
- 5 Year Extended Limited Warranty
- 7 Year Extended Limited Warranty
- 10 Year Extended Limited Warranty

* Shipped loose item

Note: Not all options available in all configurations. Consult factory for details.

100 kW • 130 kW • 150 kW • 175 kW

Application and Engineering Data

Controller Features



Digital H Control Panel- Dual 4x20 Display

Program Functions

- Programmable Crank Limiter
- 7-Day Programmable Exerciser
- Special Applications Programmable Logic Controller
- RS-232/485 Communications
- 3-Phase Sensing Digital Voltage Regulator
- 2-Wire Start Capability
- Date/Time Fault History (Event Log)
- Isochronous Governor Control
- Waterproof/Sealed Connectors
- Audible Alarms and Shutdowns
- Not in Auto (Flashing Light)
- Auto/Off/Manual Switch

- E-Stop (Red Mushroom-Type)
- NFPA110 Level I and II (Programmable)
- Customizable Alarms, Warnings, and Events
- Modbus® Protocol
- Predictive Maintenance Algorithm
- Sealed Boards
- Password Parameter Adjustment Protection
- Single Point Ground
- 16 Channel Remote Trending
- 0.2 msec High Speed Remote Trending
- Alarm Information Automatically Annunciated on the Display

Alarms and Warnings

- Oil Pressure
- Coolant Temperature
- Coolant Level
- Low Fuel Pressure Alarm (gaseous units only)
- Engine Overspeed
- Battery Voltage
- Alarms and Warnings Time and Date Stamped
- Snap Shots of Key Operation Parameters During Alarms and Warnings
- Alarms and Warnings Spelled Out (No Alarm Codes)

Full System Status Display

- Power Output (kW)
- Power Factor
- kW Hours, Total, and Last Run
- Real/Reactive/Apparent Power
- All Phase AC Voltage
- All Phase Currents
- Oil Pressure
- Coolant Temperature
- Coolant Level
- Engine Speed
- Battery Voltage
- Frequency

Generator Output Voltage/kW - 60Hz

Nom. kW	Voltage (3-phase unless noted)	kW (Standby)	Amp (Standby)	Standard CB Size
100	120/240, Single Phase	100	417	500A
	120/208	100	347	400A
	120/240	100	301	350A
	277/480	100	150	175A
130	120/240, Single Phase	130	542	600A
	120/208	130	451	500A
	120/240	130	391	450A
	277/480	130	195	225A
150	120/240, Single Phase	150	625	700A
	120/208	150	520	600A
	120/240	150	451	500A
	277/480	150	226	250A
175	120/240, Single Phase	175	729	900A
	120/208	175	607	700A
	120/240	175	526	600A
	277/480	175	263	300A

100 kW • 130 kW • 150 kW • 175 kW**Application and Engineering Data****Engine Fuel Consumption (Nominal)**

Nom. kW		gal/hr	L/hr
100	25% of Rated Load	2.2	8.3
	50% of Rated Load	4.2	15.9
	75% of Rated Load	5.9	22.3
	100% of Rated Load	7.3	27.6
130	25% of Rated Load	2.9	11.0
	50% of Rated Load	5.4	20.4
	75% of Rated Load	7.7	29.1
	100% of Rated Load	9.6	36.3
150	25% of Rated Load	3.3	12.5
	50% of Rated Load	6.2	23.5
	75% of Rated Load	8.8	33.5
	100% of Rated Load	11.2	42.2
175	25% of Rated Load	3.9	14.8
	50% of Rated Load	7.3	27.6
	75% of Rated Load	10.5	39.7
	100% of Rated Load	13.5	51.1

Fuel Pump Lift (ft/m)	3 (1)
Total Fuel Pump Flow (Combustion + Return) (gal/hr)	29.1

Note: Fuel supply must be sized for Total Fuel Flow
Refer to "Emissions Data Sheets" for maximum fuel flow for EPA and SCAQMD permitting purposes

Engine Cooling

	100 kW	130 kW	150 kW	175 kW
Inlet Air (Combustion and Radiator)- cfm (m ³ /m)	6360 (180)	7900 (223.7)	7946 (225)	7946 (225)
System Coolant Capacity- gal (L)	5.65 (21.4)	5.65 (21.4)	7.5 (28.4)	7.5 (28.4)
Heat Rejection to Coolant- BTU/hr	269,130	353,900	412,900	497,718
Max Operating Air Temperature- °F (°C)	122 (50)	122 (50)	122 (50)	122 (50)
Maximum Temperature Before Derate- °F (°C)	110 (43.3)	104 (40)	110 (43.3)	104 (40)
Maximum Altitude Before Derate- ft (m)	7500	3000	6000	3000
Derate	Derate for altitude is 3.0% for every 1000 ft above the baseline altitude. Derate for temperature is 1.7% for every 5° F or 3% for every 5° C above the baseline temperature.			
Maximum Radiator Backpressure- in H ₂ O	0.5	0.5	0.5	0.5

Combustion Air Requirements

Flow at Rated Power- cfm (m ³ /m)	325 (9.2)	390 (11.05)	440 (12.46)	470 (13.31)
--	-----------	-------------	-------------	-------------

Engine

Rated Engine Speed- rpm	1800	1800	1800	1800
Horsepower at Rated Power- hp	152	198	240	279
Piston Speed- ft/min	1559	1559	1559	1559
BMEP- psi	165	213	257	257

Exhaust

Exhaust Flow at Rated Output- cfm (m ³ /m)	885 (25)	910 (25.8)	1050 (29.7)	1212 (34.3)
Maximum Allowable Backpressure at Turbo Outlet in Hg (kPA)	1.5 (5.1)	1.5 (5.1)	1.5 (5.1)	1.5 (5.1)
Exhaust Temperature at Engine Exhaust Manifold - °F (°C)	885 (474)	960 (516)	895 (479)	1040 (560)

Generator Specifications

Type	Synchronous
Rotor Insulation Class	H
Stator Insulation Class	H
Telephone Interference Factor (TIF)	<50
Alternator Out Leads 1-Phase	4 Wire
Alternator Output Leads 3-Phase	12 Wire
Bearings	Sealed Ball
Couplings	Flexible Disc
Excitation System	Permanent Magnet

Voltage Regulation

Type	Full Digital
Sensing	All Phases
Regulation	±0.5%

Governor Specifications

Type	Electronic, Isochronous
Steady State Regulation	±0.25%

Electrical System

Battery Charging Alternator	Standard
12 VDC, 10 A Automatic Float/Equalize Battery Charger	Optional
System Voltage	12 VDC

Engine Specifications

Make	FPT
Model	D6.7
Cylinders/Arrangement	6 In-Line
Displacement (cu. in/Liters)	408.86 / 6.7
Bore (in./mm)	4.09 / 104
Stroke (in./mm)	5.2 / 128
Compression Ratio	16.5:1
Intake Air System	Turbocharged / Aftercooled
Cylinder Head Type	100/130 - Two valve 150/175 - Four valve
Piston Type	Aluminum
EPA Emissions Certification	Tier 3

Engine Lubrication System

Oil Pump Type	Gear
Oil Filter Type	100/130 - Full Flow 150/175 - Full Flow Cartridge
Crankcase Capacity (qt/L)	100/130 - 18/17 150/175 - 19.6/20.7

Engine Cooling System

Type	Closed Recovery
Water Pump	Pre-Lubed, Self Sealing
Fan Speed (rpm)	2538
Fan Diameter (in./mm)	100/130 - 23.6/599 150/175 - 26/660.4
Fan Mode	Pusher

Fuel System

Fuel Type	Ultra Low Sulfur Diesel Fuel
Fuel Pump Type	Engine Driven Gear
Injector Type	Distribution Injection Pump
Fuel Supply Line (in./mm)	0.5 (12.7) NPT
Fuel Return Line (in./mm)	0.5 (12.7) NPT
Fuel Specification	ASTM
Fuel Filtering (microns)	5

Motor Starting Surge Capacity

Voltage Dip @ 0.3pf

Nom. kW	Voltage	sKVA at 35% Voltage Dip
100	480	200
	208/240	206
130	480	406
	208/240	305
150	480	464
	208/240	348
200	480	653
	208/240	490

Dimensions and Weights

	100 kW	130 kW	150 kW	175 kW
Open Set				
L x W x H in (mm)- No Tank	110.0 (2795) x 39.9 (1013) x 64.4 (1635.1)		117.7 (2991) x 49.7 (1262) x 57.2 (1453)	
Weight- lbs (kg)- No Tank	3386 (1536)	3557 (1614)	3920 (1778)	3614 (1639)
L x W x H in (mm)- 12" / 90 Gal	110.0 (2795) x 39.9 (1013) x 77.4 (1965)		-	-
Weight- lbs (kg)- 12" / 90 Gal	4095 (1858)	4266 (1936)	-	-
L x W x H in (mm)- 24" / 220 Gal	110.0 (2795) x 39.9 (1013) x 89.4 (2270)		-	-
Weight- lbs (kg)- 24" / 220 Gal	4428 (2009)	4599 (2087)	-	-
L x W x H in (mm)- 36" / 350 Gal	110.0 (2795) x 39.9 (1013) x 101.4 (2575)		-	-
Weight- lbs (kg)- 36" / 350 Gal	4770 (2164)	4941 (2242)	-	-
L x W x H in (mm)- 36" / 510 Gal	117.0 (2960) x 47.0 (1205) x 105.4 (2844)		-	-
Weight- lbs (kg)- 36" / 510 Gal	4751 (2157)	4922 (2235)	-	-
L x W x H in (mm)- 36" / 589 Gal	128.0 (3250) x 48.7 (1238) x 104.9 (2664)		-	-
Weight- lbs (kg)- 36" / 589 Gal	5230 (2372)	5401 (2450)	-	-
L x W x H in (mm)- 36" / 693 Gal	136.0 (3455) x 53.0 (1346) x 107.0 (2718)		-	-
Weight- lbs (kg)- 36" / 693 Gal	4949 (2237)	5120 (2315)	-	-
L x W x H in (mm)- 12" / 134 Gal	-	-	117.7 (2991) x 49.7 (1262) x 70.2 (1783)	
Weight- lbs (kg)- 12" / 134 Gal	-	-	4704 (2108)	4398 (1969)
L x W x H in (mm)- 24" / 322 Gal	-	-	117.7 (2991) x 49.7 (1262) x 82.2 (2088)	
Weight- lbs (kg)- 24" / 322 Gal	-	-	4992 (2264)	4686 (2125)
L x W x H in (mm)- 36" / 510 Gal	-	-	117.7 (2991) x 49.7 (1262) x 94.2 (2393)	
Weight- lbs (kg)- 36" / 510 Gal	-	-	5285 (2399)	4979 (2260)
L x W x H in (mm)- 36" / 693 Gal	-	-	136.0 (3455) x 53.0 (1346) x 94.2 (2393)	
Weight- lbs (kg)- 36" / 693 Gal	-	-	6945 (3150)	6639 (3011)
L x W x H in (mm)- 36" / 946 Gal	-	-	208.3 (5291) x 53.0 (1346) x 98.2 (2493)	
Weight- lbs (kg)- 36" / 946 Gal	-	-	5485 (2488)	5179 (2349)
L x W x H in (mm)- 36" / 1325 Gal	-	-	277.8 (7055) x 53.0 (1346) x 96.6 (2453)	
Weight- lbs (kg)- 36" / 1325 Gal	-	-	7960 (3611)	7654 (3472)

Dimensions and Weights

	100 kW	130 kW	150 kW	175 kW
Standard Enclosure				
L x W x H in (mm)- No Tank	132.7 (3371) x 40.5 (1029) x 63.1 (1604)		143.0 (3633) x 50.4 (1280) x 68.2 (1529)	
Weight- lbs (kg)- No Tank- Steel	4,144 (1880)	4316 (1958)	4818 (2185)	4511 (2046)
Weight- lbs (kg)- No Tank- Aluminum	3763 (1707)	3935 (1785)	4359 (1977)	4052 (1838)
L x W x H in (mm)- 12" / 90 Gal	132.7 (3371) x 40.5 (1029) x 76.1 (1934)		-	-
Weight- lbs (kg)- 12" / 90 Gal- Steel	4853 (2202)	5025 (2280)	-	-
Weight- lbs (kg)- 12" / 90 Gal- Aluminum	4772 (2029)	4644 (2107)	-	-
L x W x H in (mm)- 24" / 220 Gal	132.7 (3371) x 40.5 (1029) x 88.1 (2239)		-	-
Weight- lbs (kg)- 24" / 220 Gal- Steel	5186 (2353)	5358 (2431)	-	-
Weight- lbs (kg)- 24" / 220 Gal- Aluminum	4805 (2180)	4977 (2258)	-	-
L x W x H in (mm)- 36" / 350 Gal	132.7 (3371) x 40.5 (1029) x 100.1 (2544)		-	-
Weight- lbs (kg)- 36" / 350 Gal- Steel	5528 (2508)	5700 (2586)	-	-
Weight- lbs (kg)- 36" / 350 Gal- Aluminum	5147 (2335)	5319 (2413)	-	-
L x W x H in (mm)- 36" / 510 Gal	132.7 (3371) x 47.4 (1205) x 104.1 (2813)		-	-
Weight- lbs (kg)- 36" / 510 Gal- Steel	5509 (2501)	5681 (2579)	-	-
Weight- lbs (kg)- 36" / 510 Gal- Aluminum	5128 (2328)	5300 (2406)	-	-
L x W x H in (mm)- 36" / 589 Gal	132.7 (3371) x 48.7 (1238) x 103.6 (2633)		-	-
Weight- lbs (kg)- 36" / 589 Gal- Steel	5988 (2716)	6160 (2794)	-	-
Weight- lbs (kg)- 36" / 589 Gal- Aluminum	5607 (2543)	5779 (2621)	-	-
L x W x H in (mm)- 36" / 693 Gal	136 (3371) x 53 (1346.1) x 105.7 (2687)		-	-
Weight- lbs (kg)- 36" / 693 Gal- Steel	5707 (2581)	5879 (2659)	-	-
Weight- lbs (kg)- 36" / 693 Gal- Aluminum	5326 (2408)	5498 (2486)	-	-
L x W x H in (mm)- 12" / 134 Gal	-	-	143.0 (3633) x 50.4 (1280) x 81.2 (1859)	
Weight- lbs (kg)- 12" / 134 Gal- Steel	-	-	5602 (2515)	5295 (23760)
Weight- lbs (kg)- 12" / 134 Gal- Aluminum	-	-	5143 (2307)	4836 (2168)
L x W x H in (mm)- 24" / 322 Gal	-	-	143.0 (3633) x 50.4 (1280) x 93.2 (2164)	
Weight- lbs (kg)- 24" / 322 Gal- Steel	-	-	5890 (2671)	5583 (2532)
Weight- lbs (kg)- 24" / 322 Gal- Aluminum	-	-	5431 (2463)	5124 (2324)
L x W x H in (mm)- 36" / 510 Gal	-	-	143.0 (3633) x 50.4 (1280) x 105.2 (2469)	
Weight- lbs (kg)- 36" / 510 Gal- Steel	-	-	6183 (2806)	5876 (2667)
Weight- lbs (kg)- 36" / 510 Gal- Aluminum	-	-	5724 (2598)	5417 (2459)
L x W x H in (mm)- 36" / 693 Gal	-	-	143.0 (3633) x 53.0 (1346) x 105.2 (2469)	
Weight- lbs (kg)- 36" / 693 Gal- Steel	-	-	7843 (3557)	7536 (3418)
Weight- lbs (kg)- 36" / 693 Gal	-	-	7384 (3349)	7077 (3210)
L x W x H in (mm)- 36" / 946 Gal	-	-	208.3 (5291) x 53.0 (1346) x 109.2 (2569)	
Weight- lbs (kg)- 36" / 946 Gal- Steel	-	-	6383 (2895)	6076 (2756)
Weight- lbs (kg)- 36" / 946 Gal- Aluminum	-	-	5924 (2687)	5617 (2548)
L x W x H in (mm)- 36" / 1325 Gal	-	-	277.8 (7055) x 53.0 (1346) x 107.6 (2529)	
Weight- lbs (kg)- 36" / 1325 Gal- Steel	-	-	8858 (4018)	8551 (3879)
Weight- lbs (kg)- 36" / 1325 Gal- Aluminum	-	-	8399 (3810)	8092 (3671)

Dimensions and Weights

	100 kW	130 kW	150 kW	175 kW
Level 1 Acoustic Enclosure				
L x W x H in (mm)- No Tank	154.1 (3915) x 40.5 (1029) x 63.1 (1604)		168.5 (4279) x 50.4 (1280) x 68.2 (1731)	
Weight- lbs (kg)- No Tank- Steel	4380 (1987)	4552 (2065)	5104 (2315)	4798 (2176)
Weight- lbs (kg)- No Tank- Aluminum	3865 (1753)	4037 (1831)	4482 (2033)	4176 (1894)
L x W x H in (mm)- 12" / 90 Gal	154.1 (3915) x 40.5 (1029) x 76.1 (1934)		-	-
Weight- lbs (kg)- 12" / 90 Gal- Steel	5089 (2309)	5261 (2387)	-	-
Weight- lbs (kg)- 12" / 90 Gal- Aluminum	4574 (2075)	4746 (2153)	-	-
L x W x H in (mm)- 24" / 220 Gal	154.1 (3915) x 40.5 (1029) x 88.1 (2239)		-	-
Weight- lbs (kg)- 24" / 220 Gal- Steel	5422 (2460)	5594 (2538)	-	-
Weight- lbs (kg)- 24" / 220 Gal- Aluminum	4907 (2226)	5079 (2304)	-	-
L x W x H in (mm)- 36" / 350 Gal	154.1 (3915) x 40.5 (1029) x 100.1 (2544)		-	-
Weight- lbs (kg)- 36" / 350 Gal- Steel	5764 (2615)	5936 (2693)	-	-
Weight- lbs (kg)- 36" / 350 Gal- Aluminum	5249 (2381)	5421 (2459)	-	-
L x W x H in (mm)- 36" / 510 Gal	154.1 (3915) x 47.4 (1205) x 104.1 (2813)		-	-
Weight- lbs (kg)- 36" / 510 Gal- Steel	5745 (2608)	5917 (2686)	-	-
Weight- lbs (kg)- 36" / 510 Gal- Aluminum	5230 (2374)	5402 (2452)	-	-
L x W x H in (mm)- 36" / 589 Gal	154.1 (3915) x 48.7 (1238) x 103.6 (2633)		-	-
Weight- lbs (kg)- 36" / 589 Gal- Steel	6224 (2823)	6396 (2901)	-	-
Weight- lbs (kg)- 36" / 589 Gal- Aluminum	5709 (2589)	5881 (2667)	-	-
L x W x H in (mm)- 36" / 693 Gal	154.1 (3915) x 53.0 (1346.1) x 105.7 (2687)		-	-
Weight- lbs (kg)- 36" / 693 Gal- Steel	5943 (2688)	6115 (2766)	-	-
Weight- lbs (kg)- 36" / 693 Gal- Aluminum	5428 (2454)	5600 (2532)	-	-
L x W x H in (mm)- 12" / 134 Gal	-	-	168.5 (4279) x 50.4 (1280) x 81.2 (2061)	
Weight- lbs (kg)- 12" / 134 Gal- Steel	-	-	5888 (2645)	5582 (2506)
Weight- lbs (kg)- 12" / 134 Gal- Aluminum	-	-	5266 (2363)	4960 (2224)
L x W x H in (mm)- 24" / 322 Gal	-	-	168.5 (4279) x 50.4 (1280) x 93.2 (2366)	
Weight- lbs (kg)- 24" / 322 Gal- Steel	-	-	6176 (2801)	5870 (2662)
Weight- lbs (kg)- 24" / 322 Gal- Aluminum	-	-	5554 (2519)	5248 (2380)
L x W x H in (mm)- 36" / 510 Gal	-	-	168.5 (4279) x 50.4 (1280) x 105.2 (2671)	
Weight- lbs (kg)- 36" / 510 Gal- Steel	-	-	6469 (2936)	6163 (2797)
Weight- lbs (kg)- 36" / 510 Gal- Aluminum	-	-	5847 (2654)	5541 (2515)
L x W x H in (mm)- 36" / 693 Gal	-	-	168.5 (4279) x 53.0 (1346) x 105.2 (2671)	
Weight- lbs (kg)- 36" / 693 Gal- Steel	-	-	8129 (3687)	7823 (3548)
Weight- lbs (kg)- 36" / 693 Gal- Aluminum	-	-	7507 (3405)	7201 (3266)
L x W x H in (mm)- 36" / 946 Gal	-	-	208.3 (5291) x 53.0 (1346) x 109.2 (2771)	
Weight- lbs (kg)- 36" / 946 Gal- Steel	-	-	6669 (3025)	6363 (2886)
Weight- lbs (kg)- 36" / 946 Gal- Aluminum	-	-	6047 (2743)	5741 (2604)
L x W x H in (mm)- 36" / 1325 Gal	-	-	277.8 (7055) x 53.0 (1346) x 107.6 (2731)	
Weight- lbs (kg)- 36" / 1325 Gal- Steel	-	-	9144 (4148)	8838 (4009)
Weight- lbs (kg)- 36" / 1325 Gal- Aluminum	-	-	8522 (3866)	8216 (3727)

Dimensions and Weights

	100 kW	130 kW	150 kW	175 kW
Level 2 Acoustic Enclosure				
L x W x H in (mm)- No Tank	144.5 (3671) x 40.5 (1029) x 80.0 (2031)		143.0 (3633) x 50.4 (1280) x 91.7 (2330)	
Weight- lbs (kg)- No Tank- Steel	4499 (2041)	4671 (2119)	5296 (2402)	4989 (2263)
Weight- lbs (kg)- No Tank- Aluminum	3916 (1776)	4088 (1854)	4565 (2070)	4258 (1931)
L x W x H in (mm)- 12" / 90 Gal	144.5 (3671) x 40.5 (1029) x 93.0 (2361)		-	-
Weight- lbs (kg)- 12" / 90 Gal- Steel	5208 (2363)	5380 (2441)	-	-
Weight- lbs (kg)- 12" / 90 Gal- Aluminum	4625 (2098)	4797 (2176)	-	-
L x W x H in (mm)- 24" / 220 Gal	144.5 (3671) x 40.5 (1029) x 105.0 (2666)		-	-
Weight- lbs (kg)- 24" / 220 Gal- Steel	5541 (2514)	5713 (2592)	-	-
Weight- lbs (kg)- 24" / 220 Gal- Aluminum	4958 (2249)	5130 (2327)	-	-
L x W x H in (mm)- 36" / 350 Gal	144.5 (3671) x 40.5 (1029) x 117.0 (2971)		-	-
Weight- lbs (kg)- 36" / 350 Gal- Steel	5883 (2669)	6055 (2747)	-	-
Weight- lbs (kg)- 36" / 350 Gal- Aluminum	5300 (2404)	5472 (2482)	-	-
L x W x H in (mm)- 36" / 510 Gal	144.5 (3671) x 47.4 (1205) x 121.0 (3240)		-	-
Weight- lbs (kg)- 36" / 510 Gal- Steel	5864 (2662)	6036 (2740)	-	-
Weight- lbs (kg)- 36" / 510 Gal- Aluminum	5281 (2397)	5453 (2475)	-	-
L x W x H in (mm)- 36" / 589 Gal	144.5 (3671) x 48.7 (1238) x 120.5 (3060)		-	-
Weight- lbs (kg)- 36" / 589 Gal- Steel	6343 (2877)	6515 (2955)	-	-
Weight- lbs (kg)- 36" / 589 Gal- Aluminum	5760 (2616)	5932 (2690)	-	-
L x W x H in (mm)- 36" / 693 Gal	144.5 (3671) x 53.0 (1346) x 122.6 (3114)		-	-
Weight- lbs (kg)- 36" / 693 Gal- Steel	6062 (2742)	6234 (2820)	-	-
Weight- lbs (kg)- 36" / 693 Gal- Aluminum	5479 (2477)	5651 (2555)	-	-
L x W x H in (mm)- 12" / 134 Gal	-	-	143.0 (3633) x 60.4 (1280) x 104.7 (2660)	
Weight- lbs (kg)- 12" / 134 Gal- Steel	-	-	6080 (2732)	5773 (2593)
Weight- lbs (kg)- 12" / 134 Gal- Aluminum	-	-	5349 (2400)	5042 (2261)
L x W x H in (mm)- 24" / 322 Gal	-	-	143.0 (3633) x 50.4 (1280) x 116.7 (2965)	
Weight- lbs (kg)- 24" / 322 Gal- Steel	-	-	6368 (2888)	6061 (2749)
Weight- lbs (kg)- 24" / 322 Gal- Aluminum	-	-	5637 (2556)	5330 (2417)
L x W x H in (mm)- 36" / 510 Gal	-	-	143.0 (3633) x 50.4 (1280) x 128.7 (3270)	
Weight- lbs (kg)- 36" / 510 Gal- Steel	-	-	6661 (3023)	6354 (2884)
Weight- lbs (kg)- 36" / 510 Gal- Aluminum	-	-	5930 (2691)	5623 (2552)
L x W x H in (mm)- 36" / 693 Gal	-	-	143.0 (3633) x 53.0 (1346) x 128.7 (3270)	
Weight- lbs (kg)- 36" / 693 Gal- Steel	-	-	8321 (3447)	8014 (3635)
Weight- lbs (kg)- 36" / 693 Gal- Aluminum	-	-	7590 (3442)	7283 (3303)
L x W x H in (mm)- 36" / 946 Gal	-	-	208.3 (5291) x 53.0 (1346) x 132.7 (3370)	
Weight- lbs (kg)- 36" / 946 Gal- Steel	-	-	6861 (3112)	6554 (2973)
Weight- lbs (kg)- 36" / 946 Gal- Aluminum	-	-	6130 (2780)	5823 (2641)
L x W x H in (mm)- 36" / 1325 Gal	-	-	277.8 (7055) x 53.0 (1346) x 131.1 (3330)	
Weight- lbs (kg)- 36" / 1325 Gal- Steel	-	-	9336 (4235)	9029 (4096)
Weight- lbs (kg)- 36" / 1325 Gal- Aluminum	-	-	8605 (3903)	8298 (3764)

Dimensions and Weights

	100 kW	130 kW	150 kW	175 kW
Level 2 Acoustic Enclosure with Motorized Dampers				
L x W x H in (mm)- No Tank	144.5 (3671) x 40.5 (1029) x 88.1 (2238)		142.2 (3612) x 50.4 (1281) x 99.0 (2514)	
Weight- lbs (kg)- No Tank- Steel	4725 (2143)	4905 (2255)	5560 (2522)	5238 (2376)
Weight- lbs (kg)- No Tank- Alumium	4112 (1865)	4292 (1947)	4793 (2174)	4471 (2028)
L x W x H in (mm)- 12" / 90 Gal	144.5 (3671) x 40.5 (1029) x 101.1 (2568)		-	-
Weight- lbs (kg)- 12" / 90 Gal- Steel	5434 (2465)	5614 (2577)	-	-
Weight- lbs (kg)- 12" / 90 Gal- Aluminum	4821 (2187)	5001 (2269)	-	-
L x W x H in (mm)- 24" / 220 Gal	144.5 (3671) x 40.5 (1029) x 113.1 (2873)		-	-
Weight- lbs (kg)- 24" / 220 Gal- Steel	5767 (2616)	5947 (2728)	-	-
Weight- lbs (kg)- 24" / 220 Gal- Aluminum	5154 (2338)	5334 (2420)	-	-
L x W x H in (mm)- 36" / 350 Gal	144.5 (3671) x 40.5 (1029) x 125.1 (3178)		-	-
Weight- lbs (kg)- 36" / 350 Gal- Steel	6109 (2771)	6289 (2883)	-	-
Weight- lbs (kg)- 36" / 350 Gal- Aluminum	5496 (2493)	5676 (2575)	-	-
L x W x H in (mm)- 36" / 510 Gal	144.5 (3671) x 47.4 (1205) x 129.1 (3447)		-	-
Weight- lbs (kg)- 36" / 510 Gal- Steel	6090 (2764)	6270 (2876)	-	-
Weight- lbs (kg)- 36" / 510 Gal- Aluminum	5477 (2486)	5657 (2568)	-	-
L x W x H in (mm)- 36" / 589 Gal	144.5 (3671) x 48.7 (1238) x 128.6 (3267)		-	-
Weight- lbs (kg)- 36" / 589 Gal- Steel	6569 (2979)	6749 (3091)	-	-
Weight- lbs (kg)- 36" / 589 Gal- Aluminum	5956 (2701)	6136 (2783)	-	-
L x W x H in (mm)- 36" / 693 Gal	144.5 (3671) x 53.0 (1346) x 130.7 (3321)		-	-
Weight- lbs (kg)- 36" / 693 Gal- Steel	6288 (2844)	6468 (2956)	-	-
Weight- lbs (kg)- 36" / 693 Gal- Aluminum	5675 (2566)	5855 (2648)	-	-
L x W x H in (mm)- 12" / 134 Gal	-	-	142.2 (3612) x 50.4 (1280) x 112.0 (2844)	
Weight- lbs (kg)- 12" / 134 Gal- Steel	-	-	6344 (2852)	6022 (2706)
Weight- lbs (kg)- 12" / 134 Gal- Aluminum	-	-	5577 (2504)	5255 (2358)
L x W x H in (mm)- 24" / 322 Gal	-	-	142.2 (3612) x 50.4 (1280) x 124.0 (3149)	
Weight- lbs (kg)- 24" / 322 Gal- Steel	-	-	6632 (3008)	6310 (2862)
Weight- lbs (kg)- 24" / 322 Gal- Aluminum	-	-	5865 (2660)	5543 (2514)
L x W x H in (mm)- 36" / 510 Gal	-	-	142.2 (3612) x 50.4 (1280) x 136.0 (3454)	
Weight- lbs (kg)- 36" / 510 Gal- Steel	-	-	6925 (3143)	6603 (2997)
Weight- lbs (kg)- 36" / 510 Gal- Aluminum	-	-	6158 (2795)	5836 (2649)
L x W x H in (mm)- 36" / 693 Gal	-	-	142.2 (3612) x 53.0 (1346) x 136.0 (3454)	
Weight- lbs (kg)- 36" / 693 Gal- Steel	-	-	8585 (3894)	8263 (3748)
Weight- lbs (kg)- 36" / 693 Gal	-	-	7818 (3546)	7496 (3400)
L x W x H in (mm)- 36" / 946 Gal	-	-	208.3 (5291) x 53.0 (1346) x 136.0 (3554)	
Weight- lbs (kg)- 36" / 946 Gal- Steel	-	-	7125 (3232)	6803 (3086)
Weight- lbs (kg)- 36" / 946 Gal- Aluminum	-	-	6358 (2884)	6036 (2738)
L x W x H in (mm)- 36" / 1325 Gal	-	-	277.8 (7055) x 53.0 (1346) x 138.4 (3514)	
Weight- lbs (kg)- 36" / 1325 Gal- Steel	-	-	9600 (4355)	9278 (4209)
Weight- lbs (kg)- 36" / 1325 Gal- Aluminum	-	-	8833 (4007)	8511 (3861)

Unit Sound Data

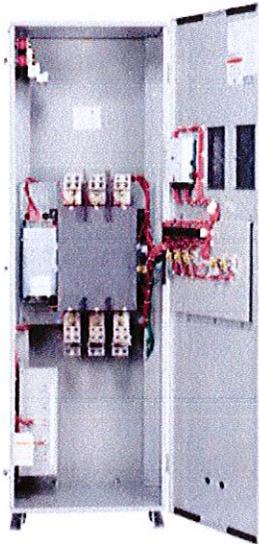
	100 kW	130 kW	150 kW	175 kW
Open Set				
No Load Sound Data- dBA	86	86	87	87
Full Load Sound Data- dBA	87	87	88	88
Standard Enclosure				
No Load Sound Data- dBA	83	83	79	79
Full Load Sound Data- dBA	83	84	81	81
Level 1 Acoustic Enclosure				
No Load Sound Data- dBA	76	76	73	73
Full Load Sound Data- dBA	80	81	77	77
Level 2 Acoustic Enclosure				
No Load Sound Data- dBA	74	74	71	71
Full Load Sound Data- dBA	76	77	73	73
Level 2 Acoustic Enclosure with Motorized Dampers				
No Load Sound Data- dBA	74	74	71	71
Full Load Sound Data- dBA	76	77	73	73

**Protector Plus
Contactor Type
Open Transition**

Power Series Transfer Switch

100–1600 Amps

1 of 3



- Automatic Transfer Switch
- 100–1600A, up to 480 VAC, 60 Hz
- Two, Three, or Four Poles
- NEMA 1 or 3R
- Open with Inphase Transition
- UL1008 Listed
- CSA C22.2 No. 178 Certified



UL1008 Listed



NFPA 70, 99, 110, 37



NEC 700, 701, 702, 708



ISO9001, 8528, 3046, 7637,
Pulses #2b, 4



NEMA ICS10, MG1, 250, ICS6, AB1



ANSI C62.41



Seismic: IBC 2009, CBC 2010, IBC 2012,
ASCE 7-05, ASCE 7-10, ICC-ES AC-156
(2012)



IEC 61000 EMC Testing & Measuring



CSA C22.2 No. 178 Certified

DESCRIPTION:

Generac's Contactor type transfer switches are double-throw and interlocked with an over center design to ensure safe, positive transfer between power sources. The switches are three cycle rated to ease breaker selection and coordination. The mechanism is field proven and operated via a reliable, compact solenoid for high speed transfer of loads between power sources. The contacts are silver composite for long life, resisting pitting or burning. The switches are rated for full load transfers in critical operating, emergency, legally required, and optional power systems.

The microprocessor based controller is flexible with extensive programmable options. The standard product offers both open with inphase and delayed transition. The 2 line–32 character LCD displays real time and historical information with time-stamped events. The integrated plant exerciser is configurable in off, daily, 7, 14, or 28 day intervals with user configurable run time. Standard features include pretransfer contacts, three phase sensing on utility and generator sources, phase unbalance, phase reversal, load shed/ emergency inhibit and communications (Modbus® RTU).

Power Series, Contactor Type, Open Transition

STANDARD FEATURES:

- Double-throw, solenoid-operated transfer mechanism
- LCD-based display for programming, system diagnostics and Help Menu display
- Mimic diagram with Source Available and Connected LED indication
- Time-stamped history log
- System TEST pushbutton
- Programmable plant exerciser - OFF, daily, 7, 14, 28 day interval selectable run time 0-600 minutes no load/load with failsafe
- Methods of transfer include: open with in-phase transition only, time delay in neutral transition, or in-phase with a default to time delay in neutral transfer
- Mechanically interlocked to prevent connection of both sources
- Field-selectable multi-tap transformer panel permits operation on a wide range of system voltages
- Modbus® RTU

VOLTAGE AND FREQUENCY SENSING:

- Three-phase under and over voltage sensing on normal and emergency sources
- Under and over frequency sensing on normal and emergency
- Selectable settings: single or three phase voltage sensing on normal, emergency and load 50 or 60Hz
- Phase sequence sensing for phase sensitive loads

CONTACTS:

- Source available:
 - Source-1 Present, 2-N.O. & 2 N.C.
 - Source-2 Present, 2-N.O. & 2 N.C.
- Switch position:
 - Source-1 Position, 1-N.O. & 1-N.C.
 - Source-2 Position, 1-N.O. & 1-N.C.
- Pre-Transfer Signal Contacts 1-N.O. & 1-N.C.

OPTIONAL FEATURES:

- Digital Multi-function Power Metering
- General Alarm Indication
- Padlockable cover for controller
- Padlockable cover for device panel

UL 1008 Short-Circuit Withstand and Close On Ratings as Listed:

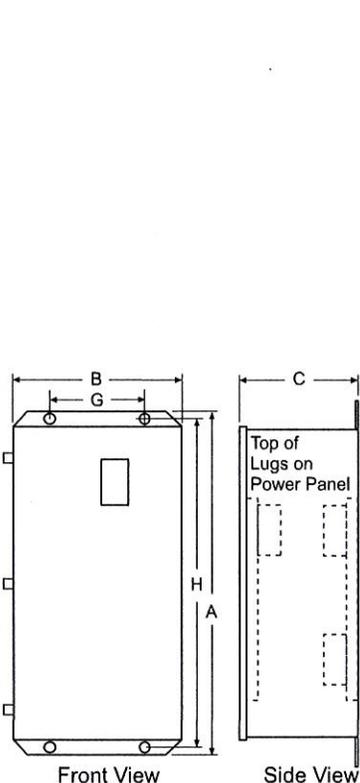
Amperage rating	Mechanism	Any Breaker	Specific Breaker
100, 200	Open with Inphase or Delayed	30,000	50,000
400	Open with Inphase or Delayed	30,000	50,000
600, 800, 1000, 1200	Open with Inphase or Delayed	50,000	65,000
1600	Open with Inphase or Delayed	50,000	65,000

CONTACTOR-BASED TRANSFER SWITCH 100-1600A OPEN TRANSITION

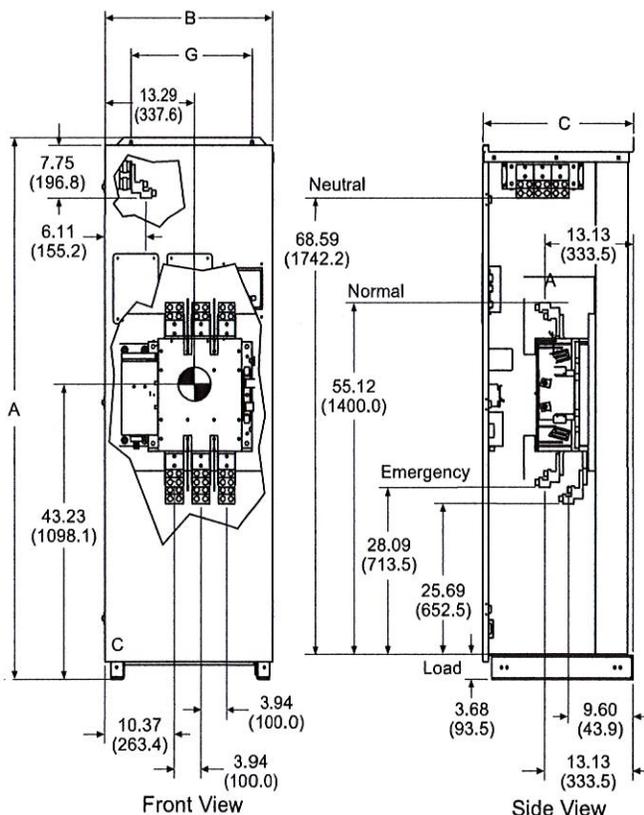
UNIT DIMENSIONS:

Amperage Rating	Enclosure	A (Height)	B (Width)	C (Depth)	G (Horizontal)	H (Vertical)	Load Side, Normal and Standby Source	Neutral Connection	Weight Lb (kg)			
100	N1, N3R	38.68 (982.5)	18.31 (465.1)	13.34 (338.8)	15.00 (881.0)	50.75 (1289.0)	(1) #14-2/0	(3) #14-1/0	156 (71)			
150-200	N1, N3R	38.68 (982.5)	18.31 (465.1)	13.34 (338.8)	15.00 (881.0)	50.75 (1289.0)	(1) #6-250 kcmil	(3) 1/0-250 kcmil	164 (74)			
225-400	N1, N3R	52.00 (1321.0)	19.81 (503.2)	16.75 (425.5)	15.00 (881.0)	50.75 (1289.0)	(2) 3/0-250 kcmil (1) 3/0-600kcmil	(6) 250-500 kcmil	260 (118)			
600-1200	N1, N3R	79.41 (2017.0)	25.25 (641.4)	22.46 (570.5)	N/A	N/A	(4) 1/0-750 kcmil	(12) 1/0-750 kcmil	600 (272)			
			3-pole						3-pole			
1600	N1	90.00 (2286.0)	29.19 (741.4)				(4) 1/0-750 kcmil	(12) 1/0-750 kcmil	650 (295)			
			4-pole						4-pole			
			40.00 (1016.0)	29.00 (736.6)	N/A	N/A			730 (331)			
N3R	90.72 (2304.3)	40.35 (1024.9)	47.59 (1208.0)	N/A	N/A	(4) 1/0-750 kcmil	(12) 1/0-750 kcmil	780 (354)				
								3-pole				3-pole
								4-pole				830 (377)

3 of 3



Automatic, Open Transition with Inphase up to 400A Wallmount Outline NEMA 1 and NEMA 3R



Automatic, 600-1200A Open and Delayed Transition



1556 S. Teut Road
P.O. Box 38
Burlington, WI 53105
(262) 763-3573 Voice
(262) 763-9898 Fax

March 23, 2018

City of Burlington
Police Department
224 E. Jefferson St.
Burlington, WI 53105

Re: Generator Upgrade
Police Department

Dear Brian,

Rewald electric will provide labor and material to install a new 100KW Generator at the Burlington Police department for the sum Of \$68,900.00.

Scope:

- Provide and Install a new Kohler Model #100REOZJF 100KW Generator
- Provide and Install a new 400 Amp Kohler Transfer Switch
- Provide and Install a new Annunciator Panel
- Provide a new 400 Amp feeder from the New Generator to the new Transfer switch
- Provide a new 400Amp feeder from the New Transfer Switch to the existing Emergency Power Distribution Panel (EP)
- Provide a new 400 amp circuit breaker in the main service and a new feeder to the transfer switch.
- Provide all Excavation and concrete work for the new generator Pad
- Provide power for the battery charger and block heater
- Provide all control wiring between the generator, Transfer switch, and Annunciator Panel
- Provide 215 gallons of diesel fuel
- Provide State of Wisconsin Fuel and Tank Permitting
- Local Permits

Alternate – Remove the existing Generator from the site and cap the existing gas line. – ADD \$2,500.00

Thank you for the opportunity to provide this proposal. Please call if you have any questions.

Thank You

Chuck Meisner
Rewald Electric
262-763-3573

chuck@rewaldelectric.com



COMMITTEE OF THE WHOLE

ITEM NUMBER 6A

DATE: April 4, 2018

SUBJECT: **MOTION 18-894** - to approve a Separation Agreement, Waiver and Release between the City of Burlington and City of Burlington Police Department employee, Kim Hardesty.

SUBMITTED BY: Carina Walters, City Administrator

BACKGROUND/HISTORY:

On October 17, 2017 the Common Council approved an contract for Joint Dispatch Services between Racine County, the City of Racine, the Village of Caledonia, the Village of Mt. Pleasant, and the Village of Sturtevant. Following the end of City-performed dispatch services, Chief Mark Anderson and City Administrator Carina Walters, assessed the existing Police Department structure and identified ways in which the Department could operate in a more efficient and effective manner. The intent of the review and reorganization was designed to enhance the effectiveness and efficiency of all Police Department staff and identify the potential community and organizational benefits of a department reorganization.

On March 6, 2018, the Common Council adopted a reorganization plan for the City of Burlington Police Department submitted by city staff pertaining to the elimination of the Administrative Services Supervisor position.

The Separation Agreement between the City and Kim Hardesty is the final step in the elimination of the Administrative Services Supervisor position.

BUDGET/FISCAL IMPACT:

RECOMMENDATION:

Staff recommends approval of this Motion.

TIMING/IMPLEMENTATION:

This item is for discussion at the April 4, 2018 Committee of the Whole meeting and due to timing, is scheduled for final consideration at the same evening Common Council meeting.

Attachments

KH_Separation Agreement

**SEPARATION AGREEMENT, WAIVER AND RELEASE BETWEEN:
CITY OF BURLINGTON AND KIM HARDESTY**

THIS AGREEMENT by and between the City of Burlington (the “City”) and Kim Hardesty (“Employee”) is made and is effective as of the date following the revocation period identified herein and the formal approval of this Agreement by the City Council of the City of Burlington (the “Effective Date”).

WHEREAS, Employee was employed by the City as Administrative Services Supervisor;

WHEREAS, the City endured catastrophic rain and flooding in July 2017 that destroyed equipment in the Dispatch Center, resulting in the City’s decision to eliminate the Dispatch Center and contract out for services through a Joint Dispatch Services Agreement resulting in the elimination of five other City employment positions and resulting in a significant change in responsibilities previously performed by the Administrative Services Supervisor;

WHEREAS, the City has reviewed this change in responsibilities for the Administrative Services Supervisor and has reorganized the Police Department to eliminate this position and to move those responsibilities among various remaining positions;

WHEREAS, the City and Employee desire, through this Agreement, for the City to make salary continuation pay and benefits in this Agreement available to the Employee and to settle all claims between the parties related to Employee’s employment with the City and Employee’s separation, and any other claims; and

WHEREAS, Employee and the City desire to accept the terms of this Agreement.

NOW, THEREFORE, the parties to this Agreement, in consideration of the mutual promises herein contained and other good and valuable consideration, the receipt and sufficiency of which are here by acknowledged, agree as follows:

1. **Deadline and Separation.** Employee and City agree that Employee shall separate from employment with the City effective on or before the end of the workday on March 7, 2018 (the “Separation Date”). Employee’s separation is final and Employee’s employment shall end on March 7, 2018 regardless of the terms of this Agreement. The remaining terms and conditions proposed in this Agreement will not be effective unless this Agreement is signed by Employee and returned to the City Administrator not later than March 28, 2018 (or twenty-one days after the date this Agreement is provided). Such return may be accomplished by personal delivery or by mailing a signed copy of the Agreement to the City Administrator’s attention in a postage prepaid envelope postmarked on or before March 28, 2018. As a result, no payments or benefits under this Agreement will be made to Employee until after the Effective Date, and payments due to Employee that accrue prior to the Effective Date shall be made on the second payroll period following the Effective Date.

2. **Payments.** In consideration for Employee's acceptance of this Agreement, and in addition to the payment of final wages due, including accrued but unused vacation, Employee will continue to be paid only Employee's regular wage as if regularly scheduled to work from the Separation Date through November 7, 2018 ("Salary Continuation Pay") according to the document marked as Exhibit A. These payments will be made on the City's regularly scheduled paydays in accordance with the pay periods and will be less applicable payroll taxes. All Salary Continuation Pay and other payments under this Agreement are being allocated for purposes of unemployment insurance to each of the pay periods occurring during the applicable pay period. This Agreement does not guarantee Employee the receipt of unemployment benefits. Employee's remaining accrued but unused vacation time shall be paid out to Employee in a separate lump sum payment in accordance with relevant wage and hour regulations.
3. **Benefits.** All benefits through the City will terminate as of midnight on May 31, 2018, except that, in consideration of Employee's promises and obligations under this Agreement, the City shall pay the City's share of Employee's City-provided health insurance premiums through May 31, 2018, and Employee shall be responsible for paying the Employee's share. The City agrees to deduct the Employee's share via payroll deduction if permitted by law. For purposes of state and federal insurance continuation laws, including COBRA, the City will send out separate notice of Employee's rights under those laws. Employee acknowledges and agrees that Employee is entitled to no further payments, compensation or benefits, unless otherwise stated in this Agreement. Employee agrees that all payments have been made to Employee as part of this Agreement through any payments made herein, and Employee hereby waives any rights to compensation, leave, or benefits from the City.
4. **Waiver and Release.** In consideration of the City's obligations and promises under this Agreement, Employee does hereby fully and forever discharge and release the City, which includes all departments and agencies, and all of the foregoing's past and present employees, officers, agents, representatives, insurers, and attorneys (collectively, the "Released Parties"), from any and all actions, causes of action, claims, demands, damages (including but not limited to punitive damages), costs, expenses, attorneys' fees, and compensation on account of, or in any way growing out of any and all known and unknown damage resulting to or to result from any action by the Released Parties which arose on or before the date of Effective Date of this Agreement.

By way of example, only, and without in any way limiting the generality of the foregoing language, Employee's release shall include all claims for relief or causes of action under Title VII of the Civil Rights Act of 1964, as amended, the Americans With Disabilities Act of 1991, 42 U.S.C. § 12101 et seq.; the Rehabilitation Act of 1973, as amended, 29 U.S.C. secs. 791, 793 and 794; the Age Discrimination in Employment Act; the Genetic Information Nondiscrimination Act of 2008 — Public Law 110-233; the Civil Rights Enforcement Statutes, 42 U.S.C. secs. 1981 through 1988; the Age Discrimination in Employment Act; the Lilly Ledbetter Act, 42 U.S.C. 2000e-5; the Equal Pay Act, 29 U.S.C. 206; Employee Retirement Income Security Act of 1974, 29 U.S.C. sec. 1001, et seq.; the National Labor Relations Act; 29 U.S.C. sec 151, et seq.; the Fair Labor

Standards Act of 1938, 29 U.S.C. § 201 et seq.; the Occupational Safety and Health Act of 1970, 29 U.S.C. § 651 et seq.; the Family and Medical Leave Act of 1993, 29 U.S.C. § 2601 et seq.; the Sherman Act, as amended, 15 U.S.C. §1 et seq.; §15 U.S.C. §12 et seq.; the Wisconsin Fair Employment Laws, § 111.33, et seq.; the Wisconsin Family and Medical Leave Act, § 103.10, Wis. Stats., Wisconsin Statute Section 111.70; state and federal Whistleblower laws, and any other federal, state or local statute, ordinance, or regulation or public policy dealing in any respect with employment, discrimination, harassment, retaliation, adverse employment action, or separation of employment, including any claims alleging a violation of public policy, and, in addition, from all claims, demands, or actions brought on the basis of alleged wrongful or retaliatory discharge, breach of an oral or written contract, misrepresentation, defamation, interference with contract or intentional or negligent infliction of emotional distress, damage to business or professional reputation, conspiracy, negligence, invasion of privacy, or any other intentional tort or negligence claim or contract claim of any sort under the common law of any state or other jurisdiction.

The parties understand and agree Employee affirmatively waives any right to personal relief under a charge, lawsuit, or claim filed against the Released Parties with the Equal Employment Opportunity Commission or Equal Rights Division to the extent such relief is legally subject to waiver for any cause of action released under this Agreement.

The parties understand and agree Employee waives any right to and shall not accept or recover any monetary damages or any other damages or anything of value from the Released Parties as a result of filing a lawsuit, charge, claim, or action or for any related claim, action or judgment against the Released Parties. Employee agrees that in the event Employee, or another person acting on Employee's behalf and with Employee's authorization, files for or receives any money or benefit as a result of such lawsuit, charge, claim, action, investigation, charge or proceeding or related claim, action or judgment, that is paid by the Released Parties, then Employee shall indemnify and fully reimburse the Released Parties for its costs and attorneys' fees in defending the action, regardless of the outcome of any case, and Employee shall indemnify and fully reimburse the Released Parties for any amounts paid to Employee, to Employee's attorneys, or on Employee's behalf within ten days of the receipt of such payment.

Employee waives her right to file and process any grievance pursuant to the City's Wis. Stat. § 66.0509 grievance procedure and applicable grievance policy.

This Section 4 shall have no effect on and shall not apply to any claim by Employee: (a) to receive any vested retirement benefits; (b) pursuant to Wisconsin's worker's compensation laws or Wisconsin's unemployment compensation laws; or (c) any claim to challenge the validity of this Agreement or this Section 4. This Section 4 shall also have no effect on any claim Employee may have against a Released Party involving purely personal conduct by that Released Party wherein the City or any other Released Party has no duty to defend or indemnify that Released Party.

5. **Older Workers Benefit Protection Act.** This Agreement is governed by the Older Workers Benefit Protection Act. Under this Act, Employee has been offered at least twenty-one (21) days after being given this Agreement during which Employee may consider whether or not to sign this Agreement. Further, in compliance with that Act, Employee has seven (7) days following Employee's signing of this Agreement during which Employee may revoke this Agreement. Therefore, this Agreement will not be effective or enforceable until the eighth day after the date Employee signs this Agreement for delivery to the City and the formal approval of this Agreement by the City Council of the City of Burlington ("Effective Date"). To be effective, a revocation must be received in writing within the seven (7) day period by the City Administrator. The parties understand and agree that if Employee revokes this Agreement within the seven-day period referred to above, the City will not have any obligation to Employee under this Agreement.
6. **Advice to Consult Legal Counsel.** Because this Agreement includes a waiver of Employee's rights under the Age Discrimination in Employment Act, Title VII of the Civil Rights Act of 1964, the Wisconsin Fair Employment Act, and the other statutes and claims referred to in Section 4, Employee is advised to consult an attorney before signing this Agreement.
7. **Acknowledgement.** Employee acknowledges the City has given Employee at least twenty-one (21) days to read this Agreement, to discuss the terms and conditions of this Agreement with Employee's adviser of choice, and to consider whether or not to sign this Agreement. Employee agrees Employee has read this Agreement and fully understands the terms and conditions thereof, which are contractual and binding and are not merely a recital. Employee acknowledges that Employee has had sufficient time to read this Agreement and consider acceptance of it and voluntarily enters into this Agreement with full knowledge of its meaning and with the specific intention of resolving all outstanding matters involving the City. In entering into this Agreement, Employee is relying on Employee's own judgment and knowledge and not on representations or statements made by the City.
8. **No Admission of Liability.** The parties' participation in this Agreement is not to be construed as an admission of any wrongdoing or liability whatsoever by or on behalf of Employee, the City, or the City's employees, officers, agents, representatives, insurers, and attorneys.
9. **Choice of Law and Entire Agreement.** This Agreement shall be construed and enforced in accord with the laws of the State of Wisconsin. It constitutes the entire agreement between the parties as to issues provided for in this Agreement and is based on language mutually presented and agreed to by the parties and as a result no rules of construction shall be applicable to either party. Headings are for the convenience of the parties only and shall not affect the interpretation or application of this Agreement.
10. **Severability.** If for any reason a court of competent jurisdiction finds any provision of this Agreement to be illegal or unenforceable, the offending provision will be deemed amended or deleted to the extent necessary to conform to the applicable law and without

materially altering the mutual interest of the parties to facilitate Employee's separation from the City without the assertion of any claims released in Section 4 and with the fullest protection of the City as identified in that Section.

11. **Counterparts.** This Agreement may be executed in counterparts and shall be as effective as if executed on one document. Facsimile and electronic signatures shall be as effective and valid as original signatures.

IN WITNESS THEREFORE, the undersigned further state that they have carefully read the foregoing Agreement, know and understand its contents and sign the same under their own free will, being duly authorized to do so.

Approved by the City of Burlington on _____, 2018.

Date

Mayor Jeannie Hefty, City of Burlington

Date

Diahn Halbach, City Clerk, City of Burlington

I ACKNOWLEDGE THAT I HAVE READ AND FULLY UNDERSTAND THE FOREGOING AGREEMENT. I FURTHER ACKNOWLEDGE THAT THE AGREEMENT FULLY AND ACCURATELY SETS FORTH THE TERMS AND CONDITIONS DISCUSSED AND AGREED UPON FOR MY SEPARATION FROM THE CITY. I HEREBY AGREE TO ALL SUCH TERMS AND CONDITIONS AND ACKNOWLEDGE THAT I HAVE BEEN GIVEN 21 DAYS AFTER BEING GIVEN THIS AGREEMENT TO CONSIDER WHETHER OR NOT TO SIGN THE AGREEMENT.

3-20-18
Date

By: Kim M. Hardesty
Employee (Print Name): KIM M. HARDESTY
Address: 5738 GAIL LYNN TRACE
BURLINGTON, WI 53105

Exhibit A – Agreed Upon Separation Payment List for Kim Hardesty

FN	LN	TITLE	HIRE	YRS	Hourly Base	Severance -1 Week Per Year
Hardesty	Kim	Administrative Services Supervisor	9/12/1983	34.51	\$35.69	\$49,265.89



COMMITTEE OF THE WHOLE

ITEM NUMBER 6B

DATE: April 4, 2018

SUBJECT: MOTION 18-895 - to approve an Airport Hangar Lease with Chadd Hartwig for 940 Bravo Taxiway, at the Burlington Municipal Airport.

SUBMITTED BY: Carina Walters, City Administrator

BACKGROUND/HISTORY:

The Airport Committee met on March 22, 2018 and recommends that the City enter into a not-to-exceed twenty-nine (29) year Airport Hangar Lease agreement with Chadd Hartwig for 949 Bravo Taxiway.

The amount of the lease equals the sum of \$.095 cents per square foot for the leased area, which contains a total of 3,000 square feet, for a total amount of \$285.00, prorated in the first and last years of the Lease with the first-year payment of \$0 due at signing, and payable thereafter in advance of the 1st day of January of each and every consecutive year of the lease term commencing on January 1, 2018.

BUDGET/FISCAL IMPACT:

An annual payment of \$285.00 will be paid to the City each year by January 1 for lease of the hangar.

RECOMMENDATION:

Staff recommends approval of this Airport Hangar Lease with Chadd Hartwig.

TIMING/IMPLEMENTATION:

This item is scheduled for discussion at the April 4, 2018 Committee of the Whole meeting, and due to timing, is scheduled for final consideration at this evening's Common Council meeting.

Attachments

Hangar Lease

Bill of Sale

This Bill of Sale is made on March 1st, 2018 between Chris Meisner and Robert Dillman ("Sellers") and Chadd Hartwig ("Buyer").

The Sellers in exchange for consideration of \$68,000 USD, the receipt of which funds is acknowledged, hereby do grant, sell, transfer, and deliver to Buyer the following property: 949 Bravo Taxiway Hangar at the Burlington Municipal Airport-- Burlington, Wisconsin.

Buyer shall have full rights to property described above.

The Sellers are the lawful owners of the property and said property is free from all encumbrances. It is understood that the hangar is sold "As-Is" with no warranties implied of any kind.

Signature of Seller #1 Robert C. Dill Date 2/27/18

Signature of Seller #2 C. Meisner Date 2/27/18

Signature of Buyer Chadd Hartwig Date 2/27/18

Purchase & Sale Agreement
949 Bravo Taxiway Hangar – Burlington Airport (KBUU)

Date: March 1st, 2018

Subject: Purchase & Sale Agreement of Hangar building at 949 Bravo Taxiway at Burlington Municipal Airport – Burlington, Wisconsin (Hereinafter "The Hangar").

Mr. Chadd Hartwig (hereinafter "Purchaser") agrees to purchase The Hangar from Meisner-Dillman, LLC (hereinafter "Seller"). The details of the transaction are as follows:

1. Purchase Price: Purchaser hereby shall purchase The Hangar from Seller for a purchase price of Sixty Eight Thousand US Dollars (\$68,000.00 USD). The Purchase Price shall be payable to Seller by check, bank wire, or cash and this purchase is not subject to any financing.
2. Specifications: Specifications for The Hangar can be seen attached in "Exhibit A".
3. Closing: A definitive closing date has been set for March 1st, 2018.
4. Conditions at Delivery: Seller shall deliver The Hangar to Purchaser in the following condition at Closing:
 - A. Hangar shall be cleaned properly of any personal items other than those of the current tenants.
5. Expenses: Each party shall be responsible for their respective expenses associated with closing this transaction (ie. Any applicable taxes, etc.)

THE UNDERSIGNED HEREBY WARRANTY THAT THEY HAVE THE AUTHORITY TO EXECUTE THIS AGREEMENT.

SELLER: Meisner-Dillman, LLC

PURCHASER: Chadd Hartwig

Accepted by Seller this 7th day of Feb, 2018. Presented by Purchaser this 7th day of February, 2018.

Signed: Robert C. Dillman
 Name: Robert C. Dillman Title: CO-OWNER

Signed: Chadd W. Hartwig
 Name: Chadd W. Hartwig Title: Owner

Signed: Christopher D. Meisner
 Name: Christopher D. Meisner Title: CO-owner

Signed: _____
 Name: _____ Title: _____



AIRPORT LEASE

This lease Agreement, made and entered into this 1st day of March, 2018 by and between the City of Burlington, State of Wisconsin, a municipal corporation existing through and under the authority of the laws of the State of Wisconsin, hereinafter referred to as "Lessor", and Chadd Hartwig whose mailing address is N2225 Six Corners Rd. Walworth, WI 53184 hereinafter referred to as "Lessee"; the Lessor and Lessee for and in consideration of the keeping by the parties of their respective obligations hereinafter contained, agree as follows:

ARTICLE 1 PREMISES SUBJECT TO LEASE

The premises subject of this Lease are:

That part of the hangar area of the Burlington Municipal Airport delineated on the official map of the Burlington Municipal Airport maintained at the office of the City Clerk at City Hall and identified as 949 Bravo Taxiway. This Lease does not include use of City Water.

ARTICLE 2 TERM

The term of this Lease shall be from March 1, 2018 to February 29, 2047 [not to exceed 29 years] both dates inclusive. This Lease shall be automatically renewed for successive ten-year periods thereafter upon mutually agreed-upon terms and approval of the renewal shall not be unreasonably withheld by the Lessor. This Lease is not transferable, See Article 5, Section G.

ARTICLE 3 RENT

The Lessee shall pay to the Lessor as rent for the Leased Premises the sum of \$.095 cents per square foot for the leased area, which contains a total of 3000 square feet, for a total amount of \$ 285.00, prorated in the first and last years of the Lease with the first-year payment of \$ 0 due at signing, and payable thereafter in advance of the 1st day of January of each and every consecutive year of the lease term commencing on January 1, 2018 subject to the provisions set forth in Article 5, Section A.

ARTICLE 4

Lessee agrees that rent charged is based on intended:

XX Personal Use, defined as the use of the Leased Premises in a manner which does not meet the definition of Commercial Use; or

_____ Commercial Use, defined as the operation of an airport-related business, which is open to the public, on or in the Leased Premises.

Lessee may change the intended use to that of another type, to be effective the following January 1st, if Lessee petitions the Airport Committee in writing no later than December 10th and the Committee approves the change no later than its December meeting. See also Article 5, Section F.

ARTICLE 5

ADDITIONAL PROVISIONS

- A. RENTAL INCREASES.** The Lessor may adjust the rental charge rate in the year 2010 and every five years thereafter, as determined by the Airport Committee in the same proportion as the cumulative change in the Consumer Price Index for all urban customers (CPI-U) over the same time period. In the event of a rate change, Lessor shall give Lessee sixty (60) days advance notice.
- B. IMPROVEMENTS.** Lessee agrees to erect on the Leased Premises a hangar, if not already constructed, and shall comply with all ordinances, building codes, and zoning restrictions for said airport, and the rules, regulations, and orders of the Airport Committee relative thereto.
- C. USE OF FACILITIES.** Lessee shall have the right to the non-exclusive use in common with others of the airport parking areas, appurtenances and improvements thereon; the right to install, operate, maintain and store, subject to approval of the Airport Committee, all equipment necessary for the safe hangaring of the Lessee's planes, specifically excluding any aviation gasoline or fuel; the right of ingress to or egress from the demised premises, which shall extend to Lessee's employees, guests and patrons; the right, in common with others so to do, to use common areas of the airport including runways, taxiways, aprons, roadways, and other conveniences for the take-off, flying and landing of aircraft of Lessee. Lessee shall not store any equipment or other material outside of its hangar without the written consent of the Airport Committee.
- D. COMPLIANCE WITH LAWS.** Lessee agrees to observe and obey during the term of this Lease all laws and ordinances, and the rules and regulations promulgated and enforced by the Airport Committee of the City of Burlington, and other proper authority having jurisdiction over the conduct of the operations of the airport including city, county, state and federal agencies or departments.
- E. INDEMNIFICATION.** Lessee agrees to indemnify and hold the Airport Committee and the City of Burlington free and harmless from loss from each and every claim and demand, of whatever nature, made on the behalf of or by any person or persons for any act or omission on the part of the Lessee, or Lessee's agents, employees, guests and patrons and from all loss or damage by reason of such acts or omissions.
- F. SUBLEASE-RENTAL OF PREMISES.** Lessee may sublet portions of the hangar constructed on the Leased Premises for the same purposes as stated in this Lease, subject to this policy of the Airport Committee relative to rental rates: It is agreed and understood by Lessee that the rate agreed to in this Lease is for (choose one) XX personal use _____ commercial use. Under this agreement it is understood by the parties that if property is sublet, the appropriate rate will be applied to this Lease from the following January 1. In the event that Lessee fails to disclose a sublease, he agrees to pay the City the amount of the increased rental for the period of any failure to so disclose.

In the event Lessee does enter into a sublease, Lessee shall require any subtenant to abide with all of the conditions of this lease agreement including the requirement that the subtenant shall hold the Airport Committee and the City of Burlington free and harmless from any loss for each and every claim or demand, of whatever nature, made by the subtenant against the Lessee herein or on behalf of or by any other person or persons for any act or omission on the part of

the Lessee or subtenant or their agents or employees, or for any loss or damage by reason of such acts or omissions by the Lessee or its subtenant.

G. OWNERSHIP OF IMPROVEMENTS. Lessee shall retain title to all building or buildings constructed on said premises and such title shall be transferable subject to the Common Council's approval of a new Lease by and between the City of Burlington and the proposed transferee.

H. MAINTENANCE. Lessee shall maintain the structure(s) it occupies and the surrounding land and premises in good order and shall make such repairs as are necessary. In the event of fire or any other casualty, the owner of any such structure so affected shall either repair or replace the building and restore the leased land to its original condition or remove the damaged building and restore the leased area to its original condition; such action must be accomplished within 120 days of the date the damage occurred. In the event that Lessee determines not to rebuild and in fact restores the Leased area to its original condition, this Lease may be terminated pursuant to Article 5, Section U(3).

In the event Lessee fails to comply with this provision, Lessor may, after thirty (30) days notice to the Lessee, enter onto the premises for the purpose of completing said maintenance, making such repairs as are necessary, or restoring the leased land to its original condition. In the event Lessor does so, Lessor shall charge the Lessee the cost of any such maintenance or repairs. If Lessee refuses to pay any such charge within thirty (30) days, Lessor shall have the right to terminate this lease. See Article 5, Section U. In the event the Lessor removes Lessee's hangar under this section, Lessor shall proceed to enforce its lien rights pursuant to Article 5, Section U.

I. ACCESS FOR INSPECTION. Lessor reserves the right to enter upon the premises at any reasonable time for the purpose of making any inspection it may deem expedient to the proper enforcement of any of the covenants or conditions of this agreement.

J. FIRE AND POLICE PROTECTION. Lessor agrees to extend to Lessee the same fire and police protection extended to the other tenants of facilities in the airport. Lessee shall arrange for annual inspection of the hangar sites and buildings by the local fire inspector, or at such other frequency as required by state statute.

K. TAXES. Lessee shall pay all taxes or assessments that are levied against personal property of the Lessee and/or the buildings which are erected on lands leased exclusively to Lessee. In the event that said personal property taxes are not paid 30 days after becoming due, Lessee shall be considered in default of this Lease. See Article 5, Section M.

L. ADVERTISING. Lessee agrees that no sign or advertising matter may be erected without the written consent of the Lessor.

M. DEFAULT. If Lessee fails to pay rent when due, or commits waste or breaches any other covenant or condition of this Lease, Lessor shall give Lessee notice to pay the rent, repair the waste or comply with the Lease on or before a date at least 30 days after the giving of the notice, and that failure to comply will result in the termination of the tenancy. If the tenancy is so terminated, Lessor shall proceed under Article 5, Section U.

N. FUTURE DEVELOPMENT. Lessor reserves the right to further develop or improve the landing area of the airport as it sees fit, regardless of the desires or view of the Lessee and without interference or hindrance from Lessee. The Lessor reserves the right, but

shall not be obligated to the Lessee, to maintain and keep in repair the landing area of the airport and all publicly owned facilities of the airport; together with the right to direct and control all activities of the Lessee in this regard.

Lessor reserves the right to take any action it considers necessary to protect the aerial approaches to the airport against construction, together with the right to prevent the Lessee from erecting, or permit to be erected, any building or other structure on the airport which, in the opinion of the Lessor, would limit the usefulness of the airport or constitute a hazard to aircraft.

O. RESTRICTIONS. Lessor will not exercise or grant any right or privilege which would operate to prevent the Lessee from performing any services on its aircraft with its own employees that it may choose to perform. These services shall include, but are not limited to, maintenance and repair. Lessee may not provide any type of maintenance or service to aircraft not owned by Lessee upon said Leased Premises .

P. PREEMPTION OF LEASE. During the time of war or national emergency, Lessor shall have the right to lease the landing area, or any part thereof, to the United States Government for military or naval use; and if any such lease is executed, the provisions of this instrument insofar as they are inconsistent with the provisions of the lease to the Government shall be suspended.

All leases shall be subordinate to the provisions of any existing or future agreement between the Lessor and the United States relative to the operation or maintenance of the airport, the execution of which has been or may be required as a condition precedent to the expenditure of federal funds for the development of the airport.

Q. NON-DISCRIMINATION. The Lessee, for himself or successors in interest and assigns, as a part of the consideration hereof, does hereby covenants and agree that: (1) no person, on the grounds of race, color, religion, or national origin, shall be excluded from participation in, denied the benefits of, or otherwise subject to discrimination in the use of the leased facilities of the City of Burlington Municipal Airport; (2) in the construction and maintenance of any improvements on, over, or under such land and the furnishing of services thereon or therein, no person on the grounds of race, color, religion or national origin shall be excluded from participation in, denied the benefits of, or otherwise subject to discrimination; (3) the Lessee shall use the premises in compliance, as applicable, with all other requirements imposed by or pursuant to Title 49, Code of Federal Regulations, Department of Transportation, Sub-Title A, Office of the Secretary, Part 2I, Non-Discrimination, in federally assisted programs of Title VI of the Civil Rights Act of 1964, and as said regulation may be amended.

R. HAZARDOUS SUBSTANCE INDEMNIFICATION. Lessee represents and warrants that its use of the Premises herein will not generate any Hazardous Substance, and it will not store or dispose on the Premises nor transport to or over the Premises any Hazardous Material or Substance in violation of any applicable federal, state, or local law, regulation or rule then presently in effect. Lessee further agrees to hold the City of Burlington harmless from and indemnify the City of Burlington against any release of such Hazardous Substance and any damage, loss, or expense or liability resulting from such release, including all attorney's fees, costs and penalties incurred as a result thereof which was caused by Lessee or any of its employees or agents. "Hazardous Substance" shall be interpreted broadly to mean any substance or material defined as a radioactive substance, or other similar term by any federal, state or local environmental law, regulation or rule presently in effect or promulgated

in the future, as such laws, regulations or rules may be amended from time to time, and it shall be interpreted to include, but shall not be limited to, any substance which after release into the environment will or may reasonably be anticipated to cause sickness, death or disease.

The City of Burlington represents and warrants that it has no knowledge of any Hazardous Substance existing on the Owned Premises in violation of any applicable federal, state or local law, regulation or rule. The City of Burlington further agrees to hold Lessee harmless from and indemnify Lessee against any damage, loss, or expense or liability resulting from the existence on the Owned Premises of any such Hazardous Substance, including all attorneys' fees, costs and penalties incurred as a result thereof, unless caused by Lessee, any other Lessee, or any of their employees, agents, guests or patrons.

S. INSURANCE. The Lessee agrees that it will deposit with the Lessor a policy of comprehensive liability insurance. The policy shall be issued by a company licensed to do business in Wisconsin and shall insure the Lessee against loss from liability to the amount of \$1,000,000 for each occurrence and in the amount of \$2,000,000 aggregate, which shall name the Lessor as an additional insured. The cancellation or other termination of any insurance policy issued in compliance with this section shall automatically terminate the Lease unless another policy has been filed and approved pursuant to this section and shall be in effect at the time of such cancellation or termination.

T. SNOW REMOVAL POLICY. The Lessor's and the Lessee's responsibilities for snow removal are defined under the City of Burlington's Snow Removal Policy. This Policy was adopted by a resolution of the Burlington Common Council. This policy may be amended or updated at any time without notification. Each party agrees to abide by the then-current terms of said Policy.

U. TERMINATION. (1) By Default. In the event that Lessee defaults under Article 5, Sections H., M., or S., or by other operation of law, the tenancy shall be terminated, Lessor shall have the right to re-enter or repossess the leased property, either by force, summary proceedings, surrender, or otherwise, and dispossess and remove there from Lessee, and its effects, without being liable to any prosecution therefore, and Lessee shall surrender possession of the premises, and Lessee hereby expressly waives the service of notice of intention to re-enter or of instituting legal proceedings to that end.

(2) By Expiration. In the event that this Lease is terminated pursuant to Article 2 hereof, Lessee shall either: a. Sell its hangar to a third party, and the buyer thereof shall enter into a new Lease with the City of Burlington, which sale and transfer shall not be effective until and unless approved by the Common Council; or b. By or before the last date of the term of the Lease, remove its hangar and all equipment and restore the premises to the condition it was in prior to the construction of the hangar.

(3) By Mutual Consent. This Lease may be terminated by the mutual consent of the parties, upon the entry into a new Lease or such other terms and conditions agreed to as evidenced by the signatures of the parties hereto.

(4) Lien Rights. Lessor shall, in any event, have liens on Lessee's hangar and other personality, including Lessee's aircraft, pursuant to Wis. Stat. §§ 704.05(5) and 779.43(3), and shall enforce such liens as provided by law, but shall have, in addition to those rights provided by Wis. Stat. § 704.05(5)(a) 1. and 2., the right to demand payment of past due rent and/or other charges due from Lessee under the terms of this Lease for release of the lien, or apply the

proceeds of sale to past due rent and/or other charges due from Lessee under the terms of the Lease.

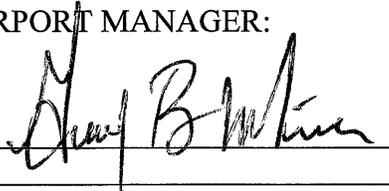
V. GENERAL PROVISIONS. The following provisions shall apply to this Agreement:

- (1) Rights and liabilities of the parties shall bind and inure to the benefit of their personal representatives, heirs, successors and assigns.
- (2) This agreement constitutes the entire agreement pertaining to the subject matter and supersedes all prior and contemporaneous agreements of the parties in connection therewith.
- (3) In construing this Lease, feminine or neuter pronouns may be substituted for those masculine in form and vice versa and plural terms may be substituted for singular and singular for plural in any place in which the context so requires.
- (4) The captions contained in this Agreement are for reference only and do not form part of this Agreement.

IN WITNESS WHEREOF, the parties have hereunto set their hands and seals they day and year first herein written.

Approved by the Airport Committee on: March 22, 2018

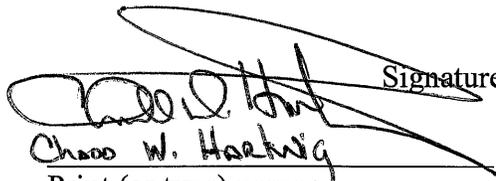
AIRPORT MANAGER:



Signature

Gary B. Meisner
Print (or type) name

LESSEE:


_____ Signature

Chad W. Hartwig
Print (or type) name

Approved by Common Council on: _____

CITY OF BURLINGTON

Signature

Owner

Title