Islandaire
The perfect fit.™

EZVA SERIES

EZVA SERIES THRU-THE-WALL/BUILT-IN AIR CONDITIONERS
For New Construction and as Replacement for:
GE AZ Vertical, Friedrich Vert-I-Pak

The EZVA heat pump is specifically designed for colder climates where low ambient temperature operation is required. The unit height is an industry standard 23 1/8" wide by 23 1/8" deep by 31" high. We offer our cooling chassis to operate as a heat pump only unit, or heat pump with backup electric heat. Its variable motor speed compressor provides variable refrigerant flow (VRF), rather than standard on/off operation. By operating at varying flow rates, VRF units work only at the needed capacity allowing for substantial energy savings under changing load conditions. The unit provides individually-zoned, comfort-controlled heating and cooling. Standard warranty is a one year parts and labor including five year compressor part only warranty, or a two year parts only including a five year compressor part only warranty.

FEATURES:

- Whisper Quiet Tangential Wheel
- Superior Energy Efficiency Ratios (EERs) and Coefficient of Performances (COPs)
- Commercial Duty Construction with Heavy Gauge Galvanized Steel
- Enhanced Vapor Injection (EVI) Compressor
- Fan Cycle Option Standard
- Dual-Stage electric heat element option
- Front desk control capable
- Hi Pressure Cutout Standard
- Self-diagnosis
- Random Auto Re-start
- Compressor time delay
- Room side freeze protection
- Washable air filter

ACCESSORIES:

- 18 gauge, powder-coat painted wall plenum
- Air Discharge Plenum Assembly Kit
- Wall Plenum/Drain Pan Kit
- Architectural Louver
- Access Panel (interior)
- Return Air Grille
- Wired or wireless remote thermostat
- Energy Management Thermostat
- I.R. motion sensor
- Door switch

OPTIONS:

- Available motorized fresh air damper

R32 Refrigerant

Designed, Engineered, Assembled in the USA, Islandaire

Component
EZ - Cooling Chassis

Model Type
VA - Islandaire Low Ambient Vertical Unit

System Type
L - Heat Pump R32

Cooling Capacity
09 - 9,500 BTU
12 - 12,000 BTU
15 - 15,000 BTU
18 - 18,000 BTU
24 - 24,000 BTU

Voltage/Line Cord
2 - 208/230v, 20 Amps
3 - 208/230v, 30 Amps
4 - 208/230v, Hard Wire
9 - 208/230v, 15 Amps
G - 208/230v, Junction Box

Fresh Air Options
1 - Dr. PTAC/VTAC (35 CFM)
2 - Dr. PTAC/VTAC (55 CFM)
3 - Power Vent
4 - None
5 - Motorized Damper
6 - Dr. PTAC/VTAC (75 CFM)
7 - Dr. PTAC/VTAC (110 CFM)

Fresh Air Options notes:
1) Available only on 9, 12, and 15 kBTU units
2) Available only on 18 and 24 kBTU units

Functional Options
A - None
F - 250W Fresh Air Heater
G - 400W Fresh Air Heater

Identity Code
0 - Special
7 - Standard

EZ	VA	12	L	2	3	I	N	4	7	A	A

Heating Options
3 - Dual Stage 3.4 kW Elec (2.5 kW / 0.9 kW)
4 - Dual Stage 5.0 kW Elec (3 kW / 2 kW)
8 - Dual Stage 7.2 kW Elec (5.0 kW / 2.2 kW)
9 - Dual Stage 10 kW Elec (5 kW / 5 kW)
A - None Cooling Only
B - 2.5 kW Elec. Heat (208v - 277v)
C - 3.4 kW Elec. Heat (208v - 277v)
E - 5.0 kW Elec. Heat (208v - 277v)

Hydronic Options
1 - None

Room Controls
E - Wireless Thermostat (specify type when ordering)
N - Wall Thermostat Interface, Std. Elect. Cntrls
Z - Unit Mounted LCD/WiFi

Power Mgt. Options
A - None
C - Energy Mgt. N/O
D - Energy Mgt. N/C

Power Mgt. Codes*
A - A
P - C
T - D

*Codes are entered into model number.

*Specifications are subject to change due to ongoing product development.

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6140628 Rev. - (02/26/26)

EZ VA SERIES

DR. VTAC is designed with heavy duty materials and with a focus on indoor noise reduction, manufactured in accordance to ARI, UL, and AHAM standards and is ETL listed creating the premier VTAC unit of the future.

PATENTED TECHNOLOGY

The DR. VTAC system is an add on system to our standard VTAC unit that provides conditioned make up air. The DR. VTAC system provides up to 55 CFM of outdoor air 24/7 by forced fan and a cycling dehumidifier compressor based on outdoor relative humidity levels.

DR. VTAC was created to solve issues with dehumidification in rooms and to introduce fresh air due to deficiencies of oxygen levels. DR. VTAC is not only a VTAC but a Conditioned Make Up Air unit. New ASHRAE studies show that many illnesses in hotel rooms can be attributed to oxygen-deficient atmospheres. DR. VTAC solves that issue by introducing tempered conditioned make up air that satisfies both humidity level introduction and supplied oxygen.

DR. VTAC is a two-stage system. The primary unit is responsible for control of Sensible Heat that is introduced into the room via make up air temperature and thermal load of the occupants. The secondary unit is primarily a dehumidification unit that provides up to 55 CFM of outside fresh air into the room. The correction of the Sensible Temperature comes from the main VTAC unit, which provides additional dehumidification with temperate correction. Overall unit efficiency over standard VTACs is approximately 3% improvement. The compressor/dehumidification process is controlled by a humidistat (factory set at 50% RH) which is monitoring the outdoor relative humidity level and is adjustable by a qualified service tech. When the outdoor humidity level rises above 50% RH, the compressor and dehumidification process starts. Below 50% RH, compressor operation and dehumidification is stopped, however, fan operation continues to provide up to 55 CFM of outdoor air into the space.

The dehumidification system has a temperature switch that monitors both the refrigeration and the outdoor air temperatures. If the outdoor air temperature falls below 38 °F, the compressor is disabled with fan operation continuing to provide outdoor air into the space. All dehumidifier controls and safeties are automatically reset. An optional air tempering heater is available for the fresh air system for applications where operation in cold winter climates is required. Condensate from the dehumidifier drains into the VTAC drain pan, where it is also slung onto the condenser coil for re-evaporation outside when the A/C is running. Excess condensate is either drained to the outside through the louver or is piped to a drainage system.

Key benefits include:

1. Lower installation/renovation costs than a typical Dedicated Outdoor Air System (DOAS).
2. Decreased inconvenience to customer due to construction/installation of a DOAS system.
3. More humidity control in a room over use of a simple VTAC vent or power vent system.
4. Allows fresh make up air to travel entirely across sleeping and living area of a room, exiting through a duct or under the door.

LEED Points Achieved:

1. Energy Efficient Design and compliance with ASHRAE 62.1 and ASHRAE 90.1
2. Indoor Environmental Quality with improved IAQ through make up air.
3. Innovation in design through the use of a "Make Up Air VTAC".
4. Regional design through the use of Dr. VTAC in high humidity climates.
5. Diverting Construction Debris through the use of re-usable containers.
6. Recycling/Reusing Dr. VTAC in secondary market where the "first costs" are prohibitive to owners.

Problem Solving Benefits of DR. VTAC:

- 100% Continuously Conditioned Make up Air
- Reduced Microbial Growth
- Mildew Control
- Odor Reduction
- Solves Indoor Air Quality Issues

DR.VTAC SPECIFICATIONS	
COMPRESSOR (AMPS)	1.02
COMPRESSOR (WATTS)	225
FAN (AMPS)	0.11
DEHUMIDIFICATION @60%RH (LITERS/DAY)	7.9
DEHUMIDIFICATION @82%RH (LITERS/DAY)	17.02
HEATER (WATTS)	250/400
HEATER (AMPS)	1.1/1.7
CONTROL TYPE	Automatic

Dehumidifier Capabilities (AHAM Humidity/Temperature Conditions):

Outdoor %RH	Outdoor Temp (°F)	H20 Removal (L/Day)
60	80	7.9
60	90	7.8
62	84	9.6
70	81	11.18
85	90	14.4
82	82	17.02

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EZ VA SERIES

	EZ09	EZ12	EZ15	EZ18	EZ24
Volts	208/230	208/230	208/230	208/230	208/230
Cooling Capacity (BTU/Hr)	9,600	12,000	15,000	18,500	24,000
Cooling Capacity Range (BTU/Hr)	6,300 - 11,800	6,500 - 14,900	7,300 - 18,000	10,500 - 19,500	13,900 - 25,600
SEER2	14.2	14.2	14.2	14.0	14.0
Heating Capacity (BTU/Hr)	9,800	13,000	16,000	18,000	22,000
Heating Capacity Range (BTU/Hr)	5,200 - 12,600	5,600 - 14,200	9,500 - 17,000	11,500 - 19,200	15,100 - 25,900
COP	3.3	3.1	2.9	2.9	2.8
HSPF2	6.4	6.4	6.4	6.4	6.4
Amps, Cooling	3.85/3.47	5.70/5.10	7.30/6.60	8.70/7.90	12.40/11.20
Power (Watts), Cooling	800/800	1,180/1,180	1,520/1,520	1,808/1,805	2,575/2,575
Amps, Heating	4.17/3.77	6.00/5.40	7.80/7.00	8.70/7.90	11.01/10.10
Power (Watts), Heating	867/867	1,247/1,247	1,620/1,620	1,808/1,808	2,318/2,318
Evap motor Nominal HP	1/25	1/25	1/25	1/25	1/25
Airflow (CFM), High Cool (SP 0.1")	350	400	500	600	650
Airflow (CFM), Low Cool (SP 0.1")	260	260	300	525	610
Weight	141	141	145	227	231
Low Ambient Heating Capacity @ 47°F	9,800	13,000	16,000	18,000	22,000
Low Ambient COP @ 47°F	3.3	3.3	2.9	2.9	2.8
Low Ambient Heating Capacity @ 10°F	8,800	9,200	10,500	16,000	17,000
Low Ambient COP @ 10°F	1.95	1.9	1.9	1.9	1.9
Low Ambient Heating Capacity @ 5°F	8,000	8,500	9,500	14,000	15,000
Low Ambient COP @ 5°F	1.7	1.65	1.65	1.65	1.65
Low Ambient Heating Capacity @ -5°F	6,500	7,200	9,000	12,000	13,000
Low Ambient COP @ -5°F	1.5	1.5	1.5	1.5	1.5

Heating Option	Voltage (1)	Wattage	BTU/h	Amps (2)
3	208	2,780	9,500	13.37
	230	3,400	11,600	14.78
4	208	4,090	14,000	19.66
	230	5,000	17,100	21.74
8	208	5,890	20,100	28.31
	230	7,200	24,600	31.30
9	208	8,180	27,900	39.32
	230	10,000	34,100	43.48
B	208	2,045	7,000	9.83
	230	2,500	8,500	10.87
C	208	2,780	9,500	13.37
	230	3,400	11,600	14.78
L	208	5,890	20,100	28.31
	230	7,200	24,600	31.30
M	208	8,180	27,900	39.32
	230	10,000	34,100	43.48

(1) Voltage is Single Phase, Alternating Current and R.M.S.
(2) Amp values are for heating element only.

Where applicable, cooling capacities are specified at conditions of 95 °F DB/75 °F WB (35 °C DB/24 °C WB) outdoor and 80 °F DB/67 °F WB (27 °C DB/19 °C WB) indoor and heating capacities are specified at conditions of 47 °F DB/43 °F WB (8 °C DB/6 °C WB) outdoor and 70 °F DB/60 °F WB (21 °C DB/16 °C WB) indoor in accordance with AHRI 310/380 and CSA C744 standards. Wattage, Amperage, EER, and COP listings include compressor, evaporator motor and condenser fan motor. The above ratings are a typical heat pump style unit.

Line Voltage	Maximum Amperage	Wall Socket Configuration	Receptacle Number	Electrical Heat Options
208/230	12		NEMA 6-15R	2.5
208/230	16		NEMA 6-20R	3.4
208/230	24		NEMA 6-30R	4.2 - 5.0

Intertek

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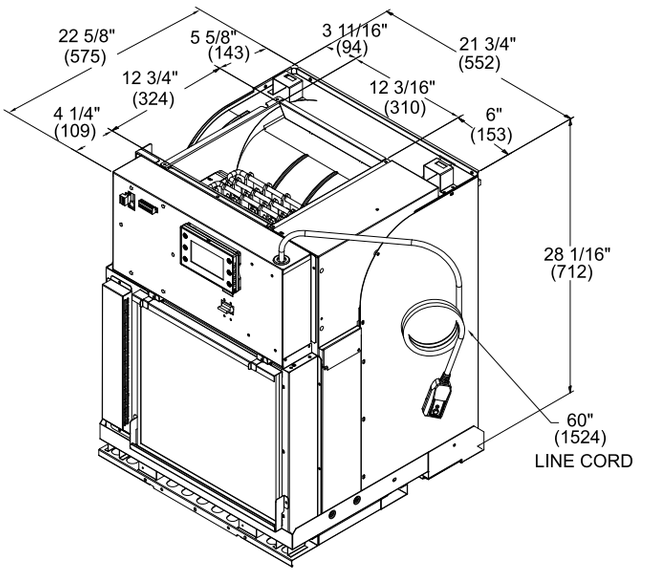
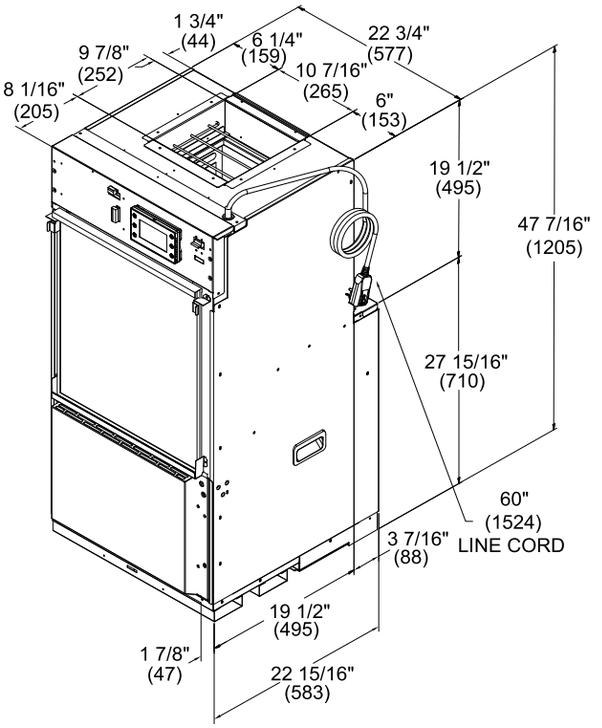
EZ VA SERIES

Unit Dimensions

9k thru 15k Unit Dimensions:



18k and 24k Unit Dimensions:



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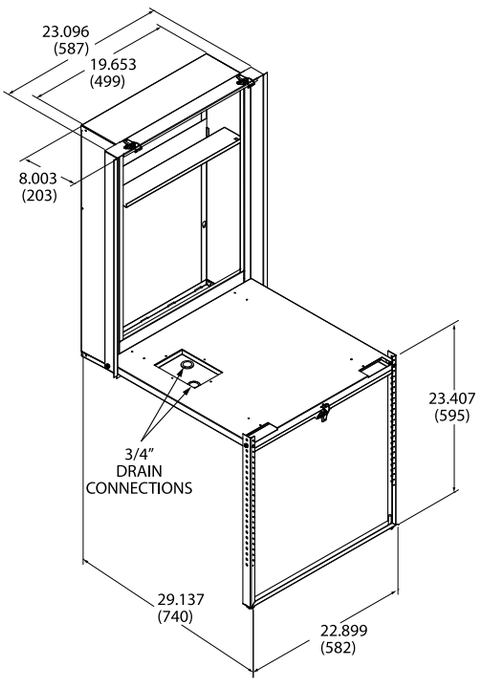
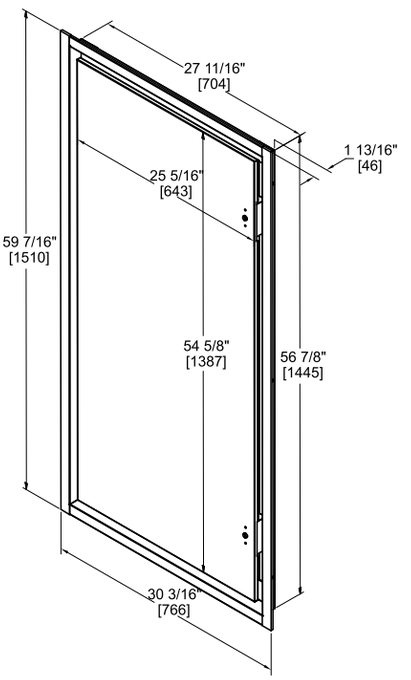
EZ VA SERIES

Unit Dimensions

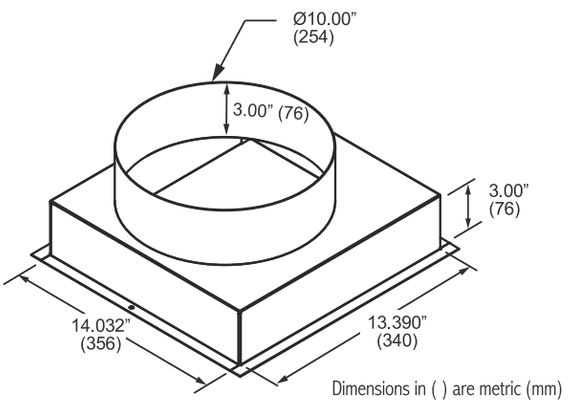
Wall Plenum Assembly Dimensions:



Hinged Access Panel Assembly Dimensions (All Units):

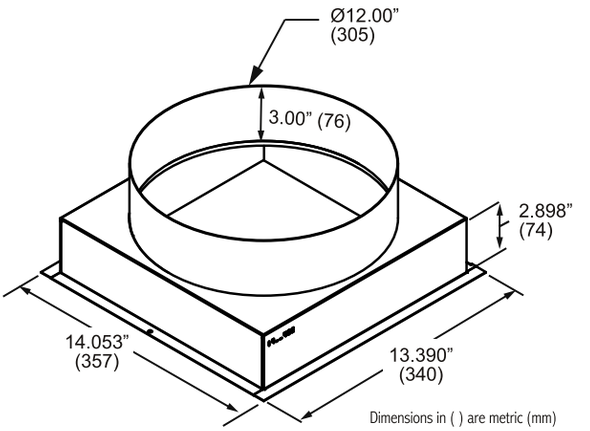


Discharge Plenum Dimensions (9kBTU - 15kBTU Units):



Dimensions in ( ) are metric (mm)

Discharge Plenum Dimensions (18kBTU and 24kBTU Units):



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EZVA SERIES

EZVV Inverter: The Benefits of Inverter Technology

The EZVA Series Inverter Heat Pump incorporates state-of-the-art inverter technology not found in any other VTAC. The technology is the culmination of years of research to develop a VTAC to clearly lead the market with the lowest energy consumption, most consistent dehumidification, best conditioned air and the lowest sound levels.

Although published EER's will be similar to other VTACs, based on laboratory testing simulating real-world installations, up to a 30% reduction in energy consumption can be expected with the Islandaire EZVA Series VTAC when compared to other VTACs! Dramatic energy savings and sound reduction is achieved by modulating the output of the VTAC to match the cooling or heating demands of the room, eliminating costly and noisy compressor cycling.

Non-Inverter VTACS
Run the compressor at full RPM or zero RPM (on or off). The on/off compressor cycling in part-load conditions wastes substantial amounts of electric power.

EZVV Inverter VTAC
Slow the compressor RPM to match the part-load cooling or heating power required. A substantial reduction in power consumption occurs.

Incredibly Quiet

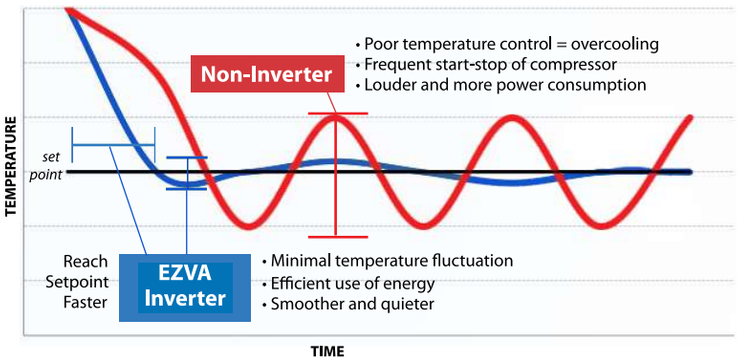
- Inverter compressor, condenser fan and evaporator fan slow to match cooling and heating demand of room, reducing operating sound levels.
- Elimination of compressor start/stop means the room is much quieter in part-load conditions

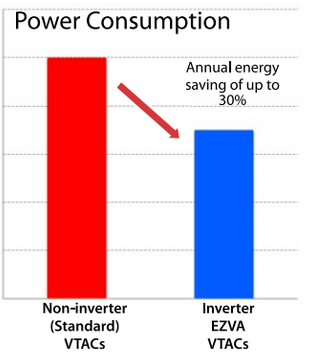
Highest Efficiency

In real-world conditions, the modulating inverter chassis means inefficient start/stop of the compressor is eliminated.

Consistent Dehumidification

Modulating inverter technology ensures a cold condensing evaporator coil in part-load to keep comfortable humidity levels, eliminating clamminess in humid conditions.





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EZVA SERIES

Unit Accessories

PLENUMS/ADAPTERS

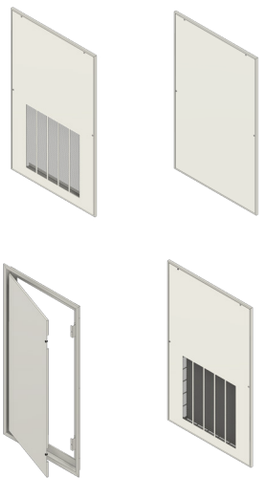
PART NUMBER	DESCRIPTION	APPROX WT.	DIMENSIONS		
			DEPTH	WIDTH	HEIGHT
4091635	EZVA Wall Plenum Assembly*	54 lbs.	6.000″	19.875″	32.000″
4091651	EZVA Wall Plenum Assembly*	56 lbs.	8.000″	19.875″	32.000″
4091652	EZVA Wall Plenum Assembly*	58 lbs.	10.000″	19.875″	32.000″
4091653	EZVA Wall Plenum Assembly*	60 lbs.	12.000″	19.875″	32.000″
4091654	EZVA Wall Plenum Assembly*	63 lbs.	15.000″	19.875″	32.000″
2501231	EZVA Plenum Ext. , 1.125, Custom	9 lbs.	1.125″	19.875″	32.000″
* To use new style EZVA Wall Plenum Assembly with an existing (old style) wall plenum, order part number 4091649, which includes plenum adapter and base pan portions only.					
Friedrich replacement units requires below wall plenum adapter:					
4091618	EZVA Friedrich VRP, Plenum Adapter	50 lbs.	5.840″	22.875″	31.334″
First Company replacement units requires below wall plenum adapter:					
4092537	EZVA First Company Plenum Adapter	48 lbs.	7.577″	22.875″	40.875″

LOUVERS

PART NUMBER	DESCRIPTION	APPROX WT.	DIMENSIONS		
			DEPTH	WIDTH	HEIGHT
6070431	EZVA Architectural Louver, External, Std.	10 lbs.	1.063″	19.875″	31.750″
6070462	EZVA Wall Return Air Grille	10 lbs.	0.3125″	20.000″	20.000″
6070548	EZVA Stamped Louver	10 lbs.	1.063″	19.875″	31.750″
6070579	EZVA Louver, Custom	5 lbs.	1.125″	19.625″	31.188″

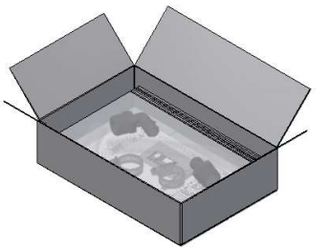
ACCESS PANELS

PART NUMBER	DESCRIPTION	APPROX WT.	DIMENSIONS		
			DEPTH	WIDTH	HEIGHT
4086087-08	EZVA Access Panel, Hinged, Perimeter Return	48 lbs.	1.780″	30.125″	59.410″
4084085	EZVA Access Panel Assembly, 9K-15K, w/Return	25 lbs.	1.923″	30.125″	50.125″
4086195	EZVA Access Panel Assembly, 18K-24K, w/ Return	36 lbs.	1.923″	30.125″	62.125″
4084962	EZVA Access Panel Assembly, 9K-15K, Solid	25 lbs.	1.923″	30.125″	50.125″
4086196	EZVA Access Panel Assembly, 18K-24K, Solid	37 lbs.	1.923″	30.125″	62.125″
4084834	EZVA Access Panel Assembly, 9K-15K, Baffled, w/Return	36 lbs.	2.072″	30.125″	50.125″
4086197	EZVA Access Panel Assembly, 18K-24K, Baffled, w/Return	43 lbs.	2.072″	30.125″	62.125″



DRAIN KITS

PART NUMBER	DESCRIPTION	APPROX WT.	DIMENSIONS		
			DEPTH	WIDTH	HEIGHT
4092521	EZVA Secondary Drain Kit, Float	1 lbs.	-	-	-
4092522	EZVA Primary Drain Kit, Flex Tubing	1 lbs.	-	-	-



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EZVA SERIES

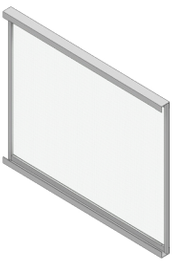
Unit Accessories

THERMOSTATS

PART NUMBER	DESCRIPTION	APPROX WT.	FEATURES		
			CONNECTION	STAGE	DISPLAY
6041206	Islandaire Non-Programmable, 2 Fan Speed	1.0 lbs.	Wireless	Single	Horizontal
6041210	Islandaire Programmable , 2 Fan Speed	1.0 lbs.	Wireless	Single	Horizontal
6041228	Islandaire Programmable (7 Day/5-1-1 Day/ Non-Programmable), Two Fan Speed	1.0 lbs.	Wired	Single	Horizontal
6041373	Islandaire Wireless, WiFi Programmable	1.0 lbs.	Wireless	Single	Horizontal
6041374	Islandaire Wireless, WiFi (Receiver Only)	1.0 lbs.	N/A	N/A	N/A
6041375	Wet Switch Kit for 6041373 Thermostat	1.0 lbs.	N/A	N/A	N/A

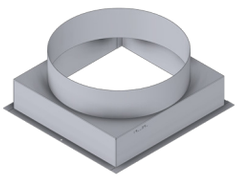
FILTERS

PART NUMBER	DESCRIPTION	APPROX WT.	DIMENSIONS		
			DEPTH	WIDTH	HEIGHT
6080125	Electrostatic Filter, 9k to 15kBTU Units	2 lbs.	1.000″	20.000″	16.000″
6080118	MERV8 Filter, 9k to 15kBTU Units	2 lbs.	1.000″	20.000″	16.000″
6080123	MERV11 Filter, 9k to 15kBTU Units	2 lbs.	1.000″	20.000″	16.000″
6080124	MERV13 Filter, 9k to 15kBTU Units	2 lbs.	1.000″	20.000″	16.000″
6080153	Mesh Filter, 18k and 24kBTU Units	2 lbs.	1.000″	20.000″	23.500″
6080154	MERV8 Filter, 18k and 24kBTU Units	2 lbs.	1.000″	20.000″	23.500″
6080155	MERV11 Filter, 18k and 24kBTU Units	2 lbs.	1.000″	20.000″	23.500″
6080156	MERV13 Filter, 18k and 24kBTU Units	2 lbs.	1.000″	20.000″	23.500″



DISCHARGE AIR PLENUMS

PART NUMBER	DESCRIPTION	APPROX WT.	DIMENSIONS		
			DEPTH	WIDTH	HEIGHT
4091640	Air Disch. Plenum Kit, 9k to 15kBTU, 7AA Units	3 lbs.	14.032″	13.390″	6.000″
4092496	Air Disch. Plenum Kit, 18k and 24kBTU, 7AA Units	3 lbs.	14.032″	14.053″	6.000″
6120212	Tapered Reducer, 10″ to 8″ Round	1 lbs.	10.000″	10.000″	6.750″



LINE CORD/HARDWIRE KITS

PART NUMBER	DESCRIPTION	APPROX WT.	DIMENSIONS		
			DEPTH	WIDTH	HEIGHT
4092552	EZVA Hardwire Kit, 48″, 115/277V	2 lbs.	N/A	N/A	N/A
4092539	EZVA Hardwire Kit, 48″, 208/230V	2 lbs.	N/A	N/A	N/A

*Specifications are subject to change due to ongoing product development.

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