

InPac 12000 Series

Fully configurable severe duty and explosion proof
HVAC and building pressurization systems
15–20 ton :: 52.5–70.5 kW



Features and Benefits

Built for critical applications

- Two-stages of cooling allows for more precise cooling as well as a 50% refrigeration backup in the event of a leak or component failure
- All-in-one design to allow a single point of connection
- 16-gauge cabinet construction for use in rugged, industrial applications
- Modular design allows improved maintenance and spare parts availability
- Form-C dry contacts for alarm outputs allow remote monitoring
- Standard motors are totally-enclosed and rated for Class 1 Div 2
- UL 508A Listed electrical panels for safety
- Fully CSA certified to UL 1995 (general purpose) and 1203 (hazloc) standards
- Industry standard voltage configurations, including: 480V 3ph 60Hz; 575V 3ph 60Hz; 380V 3ph 50Hz

Options and Accessories

- Built in NFPA-496 compliant building purge & pressurization
- Chemical and/or high efficiency particulate filtration
- Electric heat from 10 kW – 40kW
- Air quality monitoring for explosive, toxic, or corrosive gases
- Corrosion resistant coil coatings
- Corrosion resistant condenser section
- Low ambient controls, down to -70°F (-55°C)
- Fresh air stack packages
- Multiple unit control

Designed to allow full environmental control of your building.

Specific Systems InPac units are engineered and proven to stand up to the rigors and harsh conditions of corrosive and hazardous environments. The InPac line is built to demanding industrial and military specifications and features corrosion resistant coatings and inherent redundancy.

Our InPac units are engineered from the ground up to make your job easier. In fact, our modular design eliminates the need for the integration of systems from multiple vendors. Instead, using a Specific Systems InPac HVAC allows for a single point of connection to perform all of the functions otherwise requiring multiple types of units.

InPac systems are custom-engineered and built-to-order for each customer using a time-proven assembly method. Standard unit cabinets are manufactured of 16-gauge galvanized steel with all-welded construction. The completed cabinet is painted with a finish to help fight corrosion. Standard fan module consists of a motor and direct drive blowers. If any auxiliary (stand-by) fan is needed, it can be provided along with the necessary controls to automatically purge and pressurize the building. The auxiliary fan serves secondarily as a redundant fan should a failure occur to the primary fan.

Starting with our time-proven industrial DX air conditioning system, you can include many options, including those listed at left. This all-in-one design allows quicker and more efficient integration into your structure. Form-C dry contacts for alarm outputs are standard, with full remote controls available through an optional BacNet or LonWorks compatible PLC.

InPac 12000 Series

- Electrical Data
- Capacity Data
- Preliminary Dimensions

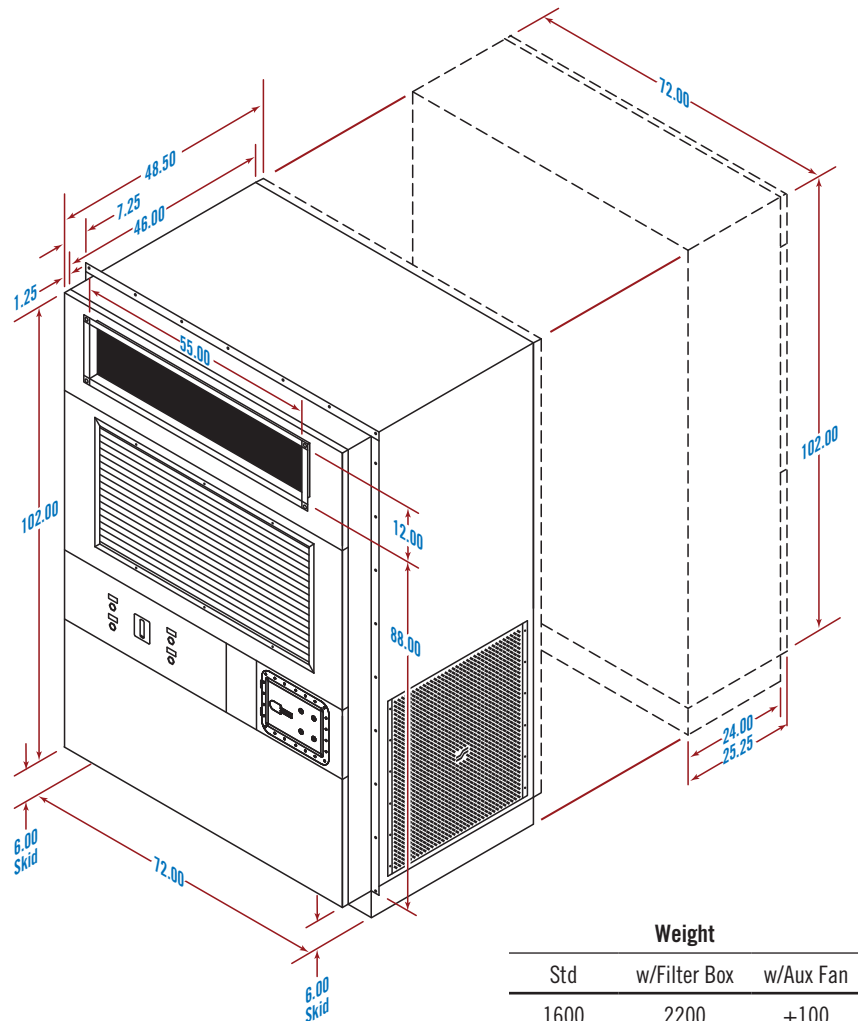
Model	CFM @ 0.50" S.P.		Nominal Capacity	
	60Hz	50Hz	60 Hz	50 Hz
12180	5430	4525	180000	150000
12240	8370	6975	240000	200000

Model	Total Cap. @ 60Hz, 80 DB / 67 WB Entering Evap.				
	75°F (24°C)	85°F (29°C)	95°F (35°C)	110°F (43°C)	120°F (49°C)
12180	215800	205200	194900	178000	166100
(kw)	63.2	60.1	57.1	52.1	48.7
12240	274300	260500	246900	226000	210500
(kw)	80.4	76.4	72.4	66.2	61.7

Model	Sensible Cap. @ 60Hz, 80 DB / 67 WB Entering Evap.				
	75°F (24°C)	85°F (29°C)	95°F (35°C)	110°F (43°C)	120°F (49°C)
12180	149500	145000	141200	134200	129400
(kw)	43.8	42.5	41.4	39.3	37.9
12240	191500	186000	180700	173700	167100
(kw)	56.1	54.5	53.0	51.0	49.0

Model	Total Cap. @ 60Hz, 80 DB / 61.8 WB Entering Evap.				
	75°F (24°C)	85°F (29°C)	95°F (35°C)	110°F (43°C)	120°F (49°C)
12180	198800	188900	179100	167900	155800
(kw)	58.0	55.4	52.5	48.3	45.6
12240	253300	240700	227900	209500	197300
(kw)	74.2	70.5	66.8	61.4	57.8

Model	Sensible Cap. @ 60Hz, 80 DB / 61.8 WB Entering Evap.				
	75°F (24°C)	85°F (29°C)	95°F (35°C)	110°F (43°C)	120°F (49°C)
12180	183200	178400	173500	164900	155800
(kw)	53.7	52.3	50.9	48.3	45.7
12240	237300	231800	222400	209500	197300
(kw)	69.5	67.9	65.2	61.4	57.8



- Dimensions shown are representative of our standard vertical, through-the-wall explosion proof Class 1 Div 2 HVAC and pressurization system
- All dimensions should be considered preliminary, and this drawing should not be used as a final construction document
- Clearances are provided as standard for maintenance. Any required clearances should be confirmed with local regulations or statutes for electrical systems
- Electrical and capacity data provided in this document is accurate at the time of publishing, but Specific Systems reserves the right to modify components in future systems, thereby negating the accuracy of these numbers.
- Please verify all data with your sales representative and subsequent project engineer

MODEL 12180		460/480V	230/240V	415V	380V	200V	575V
Electric Power		3Φ-60Hz	3Φ-60Hz	3Φ-50Hz	3Φ-50Hz	3Φ-50Hz	3Φ-60Hz
Evaporator Fan Motor FLA		7.5	15.0	6.1	6.1	12.1	6.0
Condenser Motor FLA		3.5	7.0	3.3	3.3	7.3	2.8
Compressor Motor RLA		14.7	29.5	15.1	15.1	29.5	12.2
Heat 20kW, Amps (Actual kW)		26.0 (21.6)	53.2 (21.2)	27.2 (19.6)	29.4 (19.4)	47.6 (17.2)	21.6 (21.6)
Heat 15kW, Amps (Actual kW)		18.6 (15.4)	37.6 (15.0)	22.6 (16.2)	25.0 (16.5)	40.8 (14.7)	15.4 (15.4)
Heat 10kW, Amps (Actual kW)		13.0 (10.8)	26.6 (10.6)	16.0 (11.5)	14.8 (9.7)	23.8 (8.6)	10.8 (10.8)
Total FLA, Cooling	w/o Auxiliary Fan	45.4	89.5	44.4	44.4	87.2	37.5
	w/Auxiliary Fan	52.9	104.5	50.5	50.5	99.3	43.5
10 kW Heat	MCA w/o Aux Fan	49.1	96.9	48.2	48.2	94.6	40.6
	MOP w/o Aux Fan	60.0	125.0	60.0	60.0	100.0	50.0
	MCA w/Aux Fan	56.6	111.9	54.3	54.3	106.7	46.6
	MOP w/Aux Fan	70.0	125.0	60.0	60.0	110.0	50.0
15 kW Heat	MCA w/o Aux Fan	49.1	96.9	48.2	48.2	94.6	40.6
	MOP w/o Aux Fan	60.0	125.0	60.0	60.0	110.0	50.0
	MCA w/Aux Fan	56.6	111.9	54.3	54.3	106.7	46.6
	MOP w/Aux Fan	70.0	125.0	70.0	70.0	125.0	50.0
20 kW Heat	MCA w/o Aux Fan	49.1	96.9	48.2	48.2	94.6	40.6
	MOP w/o Aux Fan	60.0	125.0	60.0	60.0	110.0	50.0
	MCA w/Aux Fan	56.6	111.9	54.3	54.3	106.7	45.6
	MOP w/Aux Fan	70.0	125.0	70.0	70.0	125.0	50.0
Operating Range		432V-506V	216V-253V	373V-456V	342V-418V	180V-220V	517V-600V

MODEL 12240		460/480V	230/240V	415V	380V	200V	575V
Electric Power		3Φ-60Hz	3Φ-60Hz	3Φ-50Hz	3Φ-50Hz	3Φ-50Hz	3Φ-60Hz
Evaporator Fan Motor FLA		11.0	22.0	9.4	9.4	23.8	8.7
Condenser Motor FLA		3.5	7.0	3.3	3.3	7.3	2.8
Compressor Motor RLA		17.9	37.1	22.4	22.4	37.1	12.8
Heat 20kW, Amps (Actual kW)		26.0 (21.6)	53.2 (21.2)	27.2 (19.6)	29.4 (19.4)	47.6 (17.2)	21.6 (21.6)
Heat 15kW, Amps (Actual kW)		18.6 (15.4)	37.6 (15.0)	22.6 (16.2)	25.0 (16.5)	40.8 (14.7)	15.4 (15.4)
Heat 10kW, Amps (Actual kW)		13.0 (10.8)	26.6 (10.6)	16.0 (11.5)	14.8 (9.7)	23.8 (8.6)	10.8 (10.8)
Total FLA, Cooling	w/o Auxiliary Fan	55.3	111.7	62.3	62.3	114.1	41.4
	w/Auxiliary Fan	66.3	133.7	71.7	71.7	137.9	50.1
10 kW Heat	MCA w/o Aux Fan	59.8	121.3	67.9	67.9	123.4	44.6
	MOP w/o Aux Fan	70.0	150.0	90.0	90.0	150.0	50.0
	MCA w/Aux Fan	70.8	155.7	77.3	77.3	147.2	53.3
	MOP w/Aux Fan	80.0	175.0	90.0	90.0	175.0	60.0
15 kW Heat	MCA w/o Aux Fan	59.8	—	67.9	67.9	—	44.6
	MOP w/o Aux Fan	70.0	—	90.0	90.0	—	60.0
	MCA w/Aux Fan	70.8	—	77.3	77.3	—	53.3
	MOP w/Aux Fan	80.0	—	90.0	90.0	—	60.0
20 kW Heat	MCA w/o Aux Fan	59.8	—	67.9	67.9	—	44.6
	MOP w/o Aux Fan	70.0	—	90.0	90.0	—	50.0
	MCA w/Aux Fan	70.8	—	77.3	77.3	—	53.3
	MOP w/Aux Fan	80.0	—	90.0	90.0	—	60.0
Operating Range		432V-506V	216V-253V	373V-456V	342V-418V	180V-220V	517V-600V