

InPac 8000 Series

Fully configurable severe duty and explosion proof
HVAC and building pressurization systems
7.5–10 ton :: 26.0 to 35.0 kW

Features and Benefits

Built for critical applications

- 50% inherent redundancy in refrigeration circuits
- 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
- Standard motors rated for Class 1 Div 2
- UL Listed electrical panels
- Fully CSA certified systems
- 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 8000 Series

- Electrical Data
- Capacity Data
- Preliminary Dimensions

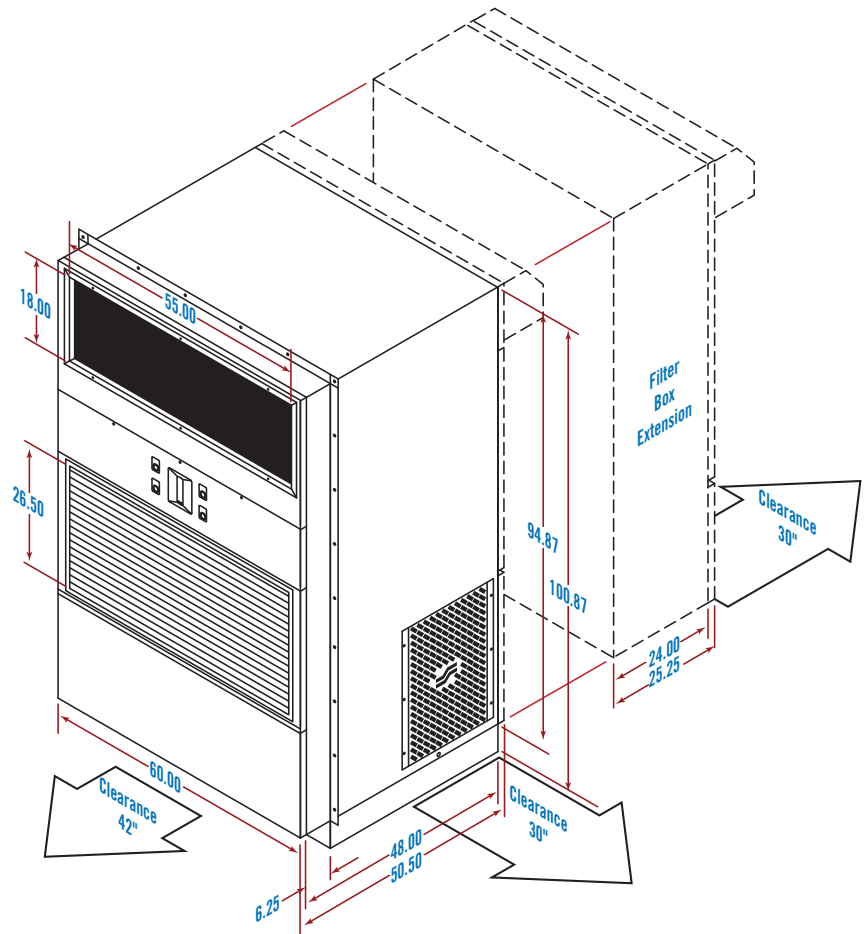
| Model | CFM @ 0.50" S.P. | | Nominal Capacity | |
|-------|------------------|------|------------------|--------|
| | 60Hz | 50Hz | 60 Hz | 50 Hz |
| 8090 | 3980 | 3320 | 90000 | 74700 |
| 8120 | 3980 | 3320 | 120000 | 100000 |

| 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) |
| 8090 | 107500 | 101700 | 96000 | 86700 | 79800 |
| (kW) | 31.5 | 29.8 | 28.1 | 25.4 | 23.4 |
| 8120 | 144800 | 137300 | 129900 | 117700 | 109300 |
| (kW) | 42.4 | 40.3 | 38.1 | 34.5 | 32.0 |

| 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) |
| 8090 | 73100 | 70600 | 68300 | 64800 | 60100 |
| (kW) | 21.4 | 20.7 | 20.0 | 19.0 | 17.6 |
| 8120 | 97500 | 94800 | 92200 | 87100 | 84200 |
| (kW) | 28.6 | 27.8 | 27.0 | 25.5 | 24.6 |

| 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) |
| 8090 | 98100 | 92800 | 87400 | 79900 | 75700 |
| (kW) | 28.7 | 27.2 | 25.6 | 23.4 | 22.2 |
| 8120 | 132500 | 125700 | 118500 | 107800 | 101000 |
| (kW) | 38.9 | 36.9 | 34.7 | 31.6 | 29.6 |

| 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) |
| 8090 | 89600 | 87200 | 85100 | 79900 | 75700 |
| (kW) | 26.2 | 25.6 | 25.0 | 23.4 | 22.2 |
| 8120 | 120700 | 118100 | 113600 | 107800 | 101000 |
| (kW) | 23.4 | 24.6 | 33.3 | 31.6 | 29.6 |



- Dimensions shown are representative of our standard vertical, through-the-wall 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 8090 | | 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 | | 4.8 | 9.6 | 4.2 | 4.2 | 8.4 | 3.9 |
| Condenser Motor FLA | | 2.5 | 5.0 | 2.5 | 2.5 | 5.0 | 2.2 |
| Compressor Motor RLA | | 9.7 | 19.0 | 9.7 | 9.7 | 19.0 | 7.4 |
| 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) | 14.5 (9.7) | 23.8 (8.6) | 10.8 (10.8) |
| Total FLA, Cooling | w/o Auxiliary Fan | 30.7 | 59.1 | 30.1 | 30.1 | 57.9 | 24.6 |
| | w/Auxiliary Fan | 35.5 | 68.7 | 24.3 | 34.3 | 66.3 | 28.5 |
| 10 kW Heat | MCA w/o Aux Fan | 33.7 | 65.1 | 32.5 | 32.5 | 62.7 | 26.5 |
| | MOP w/o Aux Fan | 40.0 | 80.0 | 40.0 | 40.0 | 80.0 | 30.0 |
| | MCA w/Aux Fan | 38.5 | 74.7 | 36.7 | 36.7 | 71.1 | 30.4 |
| | MOP w/Aux Fan | 50.0 | 90.0 | 40.0 | 40.0 | 90.0 | 35.0 |
| 15 kW Heat | MCA w/o Aux Fan | 33.7 | 65.1 | 36.9 | 36.9 | 65.4 | 26.5 |
| | MOP w/o Aux Fan | 40.0 | 80.0 | 40.0 | 40.0 | 80.0 | 30.0 |
| | MCA w/Aux Fan | 38.5 | 74.7 | 41.1 | 41.1 | 73.8 | 30.4 |
| | MOP w/Aux Fan | 50.0 | 90.0 | 50.0 | 50.0 | 90.0 | 35.0 |
| 20 kW Heat | MCA w/o Aux Fan | 40.4 | 80.4 | 42.1 | 42.1 | 74.4 | 33.9 |
| | MOP w/o Aux Fan | 45.0 | 90.0 | 50.0 | 50.0 | 80.0 | 35.0 |
| | MCA w/Aux Fan | 45.2 | 90.0 | 46.3 | 46.3 | 82.8 | 37.8 |
| | MOP w/Aux Fan | 50.0 | 100.0 | 50.0 | 50.0 | 100.0 | 40.0 |
| Operating Range | | 432V-506V | 216V-253V | 373V-456V | 342V-418V | 180V-220V | 517V-600V |

| MODEL 8120 | | 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 | | 4.8 | 9.6 | 4.2 | 4.2 | 8.4 | 3.9 |
| Condenser Motor FLA | | 2.8 | 5.6 | 2.5 | 2.5 | 5.0 | 2.2 |
| Compressor Motor RLA | | 9.7 | 19.0 | 9.7 | 9.7 | 19.0 | 7.4 |
| 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) | 14.5 (9.7) | 23.8 (8.6) | 10.8 (10.8) |
| Total FLA, Cooling | w/o Auxiliary Fan | 31.3 | 60.3 | 30.1 | 30.1 | 57.9 | 24.6 |
| | w/Auxiliary Fan | 36.1 | 69.9 | 24.3 | 34.3 | 66.3 | 28.5 |
| 10 kW Heat | MCA w/o Aux Fan | 33.7 | 65.1 | 32.5 | 32.5 | 62.7 | 26.5 |
| | MOP w/o Aux Fan | 40.0 | 80.0 | 40.0 | 40.0 | 80.0 | 30.0 |
| | MCA w/Aux Fan | 38.5 | 74.7 | 36.7 | 36.7 | 71.1 | 30.4 |
| | MOP w/Aux Fan | 50.0 | 90.0 | 40.0 | 40.0 | 90.0 | 35.0 |
| 15 kW Heat | MCA w/o Aux Fan | 33.7 | 65.1 | 36.9 | 36.9 | 65.4 | 26.5 |
| | MOP w/o Aux Fan | 40.0 | 80.0 | 40.0 | 40.0 | 80.0 | 30.0 |
| | MCA w/Aux Fan | 38.5 | 74.7 | 41.1 | 41.1 | 73.8 | 30.4 |
| | MOP w/Aux Fan | 50.0 | 90.0 | 50.0 | 50.0 | 90.0 | 35.0 |
| 20 kW Heat | MCA w/o Aux Fan | 40.4 | 80.4 | 42.1 | 42.1 | 74.4 | 33.9 |
| | MOP w/o Aux Fan | 45.0 | 90.0 | 50.0 | 50.0 | 80.0 | 35.0 |
| | MCA w/Aux Fan | 45.2 | 90.0 | 46.3 | 46.3 | 82.8 | 37.8 |
| | MOP w/Aux Fan | 50.0 | 100.0 | 50.0 | 50.0 | 100.0 | 40.0 |
| Operating Range | | 432V-506V | 216V-253V | 373V-456V | 342V-418V | 180V-220V | 517V-600V |