

6000 SERIES INPAC UNIT - MODEL 6090



PRODUCT APPLICATION

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 dual-redundancy.

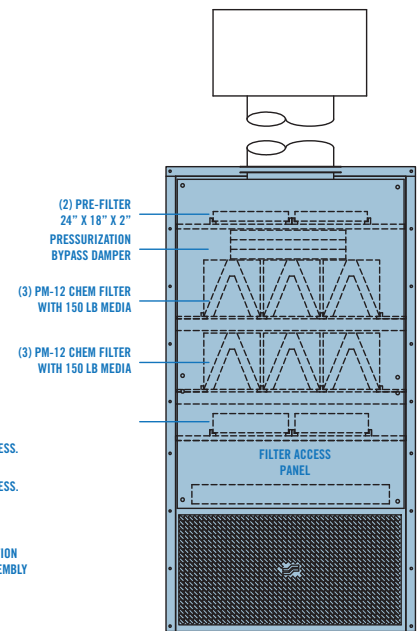
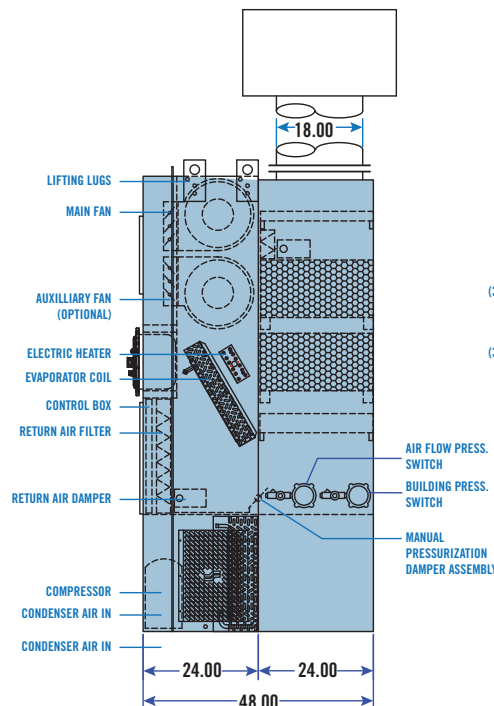
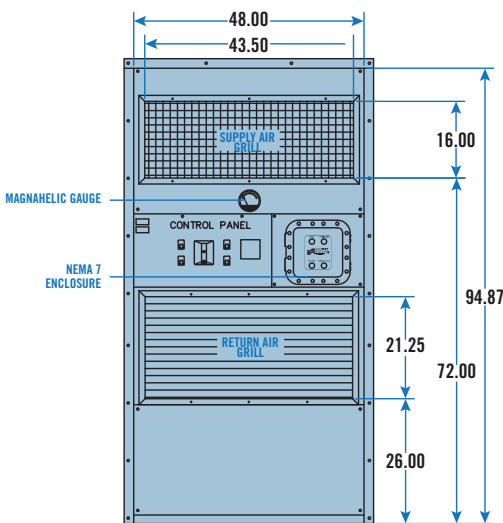
PRODUCT DESCRIPTION

InPac units 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.

AVAILABLE OPTIONS

Please contact Specific Systems about other available options.

- Explosion-Proofing / Spark-Proofing
- Chemical Filtration (ChemPac) Package
- Multiple Exterior Finishes, including Stainless Steel
- Baked Phenolic Coated Coils (Corrosion Resistance)
- Remote Control
- Stack Package
- Automatic Shut-Off
- Low Ambient Control



6000 SERIES HVAC UNIT - MODEL 6090

Electrical Specifications for Standard Units

Electric Power		230/240V 1Φ-60Hz	200V 1Φ-50Hz	460/480V 3Φ-60Hz	230/240V 3Φ-60Hz	415V 3Φ-50Hz	380V 3Φ-50Hz	200V 3Φ-50Hz	575V 3Φ-60Hz
Evaporator Fan Motor FLA		16.6	16.3	4.8	9.6	3.8	4.2	8.4	4.0
Condenser Motor FLA		10.7	10.6	3.1	6.2	2.3	2.5	5.4	2.6
Compressor Motor RLA		21.4 (42.8)	18.0 (36.0)	6.2 (12.4)	12.4 (24.8)	5.0 (10.0)	5.5 (11.0)	10.9 (21.8)	5.2 (10.4)
Heat 20KW, Amps (Actual KW)		92.2 (21.2)	95.5 (19.1)	26.0 (21.6)	53.2 (21.2)	29.8 (21.4)	29.7 (19.5)	55.0 (19.1)	23.3 (23.2)
Heat 15KW, Amps (Actual KW)		65.2 (15.0)	68.5 (13.7)	18.5 (15.4)	37.7 (15.0)	22.4 (16.1)	20.6 (13.5)	39.5 (13.7)	15.6 (15.5)
Heat 10KW, Amps (Actual KW)		46.1 (10.6)	40.0 (8.0)	13.0 (10.8)	26.6 (10.6)	16.0 (11.5)	14.7 (9.6)	23.1 (8.0)	—
Total FLA, Cooling	w/o Auxiliary Fan	70.1	62.9	20.3	40.6	16.1	17.7	35.6	17.0
	w/Auxiliary Fan	86.7	79.2	25.1	50.2	19.9	21.9	44.0	21.0
10 KW Heat	MCA w/o Aux Fan	75.4	67.4	21.9	43.7	17.4	19.1	38.3	—
	MOP w/o Aux Fan	96.9	85.4	28.1	56.1	22.4	24.6	49.2	—
	MCA w/Aux Fan	92.0	83.7	26.7	53.3	21.2	23.3	46.7	—
	MOP w/Aux Fan	113.5	101.7	32.9	65.7	26.2	28.8	57.6	—
15 KW Heat	MCA w/o Aux Fan	94.1	97.4	26.8	54.4	29.9	29.0	54.9	22.5
	MOP w/o Aux Fan	122.5	127.6	34.9	70.8	40.2	37.7	72.6	29.4
	MCA w/Aux Fan	110.7	113.7	31.6	64.0	33.7	33.2	63.3	26.5
	MOP w/Aux Fan	139.1	143.9	39.7	80.4	44.0	41.9	81.0	33.4
20 KW Heat	MCA w/o Aux Fan	124.5	127.8	35.3	71.9	38.3	38.7	72.4	31.2
	MOP w/o Aux Fan	166.4	171.5	47.1	96.1	52.2	52.5	97.8	41.9
	MCA w/Aux Fan	—	—	40.1	81.5	42.1	42.9	80.8	35.2
	MOP w/Aux Fan	—	—	51.9	105.7	56.0	56.7	106.2	45.9
Unit LRA*		177 AMP	153 AMP	51 AMP	103 AMP	41 AMP	45 AMP	90 AMP	43 AMP
Operating Range		216V–253V	180V–220V	432V–506V	216V–253V	373V–456V	342V–418V	180V–220V	517V–600V

LRA - Lock Rotor Amps, defined as evaporator fan, condenser fan, and compressor operating at full load and one compressor at LRA; MCA - Minimum Circuit Ampacity; MOP Maximum Overcurrent Protection; To size circuit breaker, select between MCA value and MOP value

Model	CFM @ 0.50 SP	BTUH@95° AMB 80 DB / 67 WB	Refrigeration Charge	
6090	3700 @ 60 Hz	120,000 NOM	Std.	9.5 lbs ea.
	3070 @ 50 Hz	100,000 NOM	w/Receivers	30 lbs ea.

Actual Capacity @ 60 Hz, 80 DB / 67 WB Entering Evap. Coil

Ambient Condition	Sensible Capacity	Total Capacity
75°F (24°C)	84,250 BTUH	112,150 BTUH
85°F (29°C)	81,950 BTUH	106,400 BTUH
95°F (35°C)	79,350 BTUH	100,500 BTUH
105°F (41°C)	76,110 BTUH	91,600 BTUH
115°F (46°C)	73,840 BTUH	85,400 BTUH