

60 SERIES INPAC UNITS



Figure 1. InPac 60 Series shown in optional stainless steel with available explosion proof control panel.



Figure 2. InPac 60 Series shown in optional stainless steel with chemical filtration package.

PRODUCT APPLICATION

The InPac 60 Series is the physically smallest of the InPac units, but its performance goes well beyond its size. Recently redesigned, the new InPac 60 Series flows more air than its predecessor and is more efficient with only a very slight increase in exterior dimensions. Using updated fan and coil technology, the new InPac 60 Series improves performance over the previous design without compromising Specific Systems' well-known ease of use.

Specific Systems 60 Series InPac units are some of the most versatile and durable 1 ton to 3 ton (12,000 – 36,000 BTUH) through-the-wall HVAC units available today. The 60 Series couples multiple mounting configurations with a small footprint and rugged construction. The 60 Series was specifically designed for heavy-duty use in commercial and industrial applications such as analyzer houses, instrumentation, control, and electrical powerhouse assemblies. The modular design of the InPac 60 Series allows easy production modifications of the basic unit to convert the basic unit from a through-the-wall configuration to a roof mounted configuration.

Optional NFPA-compliant purge and pressurization, gas alarms, chemical filtration, phenolic coated coils and explosion-proof packages combine to create a through-the-wall industrial grade HVAC system that is second-to-none. Additionally, options such as stainless steel cabinetry, low ambient controls, and special filter/control systems make the InPac 60 Series the ideal choice for use in highly corrosive and explosive environments. Model 61 uses a single refrigerant circuit, while Models 62 and 63 contain dual refrigerant circuits for 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 powder coated to 4 mils 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. Hot gas bypass is a standard feature, as are crankcase heaters.

AVAILABLE OPTIONS

Please contact Specific Systems about other available options.

- Purge and Pressurization
- Stack Packages
- Auxiliary Backup Purge Blower
- Chemical Filtration
- High/Low Temperature and Unit Fail Alarms
- Phenolic Coated Coils
- Gas Alarms (H₂S, Combustible, Smoke)
- Humidity Control



60 SERIES INPAC UNITS

Electrical Specifications for Standard Units

Model 61

Electric Power	230/240V 1Φ-60Hz	200V 1Φ-50Hz	460/480 3Φ-60Hz	230/240 3Φ-60Hz	415V 3Φ-50Hz	380V 3Φ-50Hz	200V 3Φ-50Hz	575V 3Φ-60Hz	
Fan Motor FLA	11.1	12.8	3.2	6.4	2.3	2.5	5.4	2.7	
Compressor Motor RLA	12.8	11.3	3.7	7.4	3.0	3.3	6.5	3.1	
Heat, Exp. Proof, Amps, (KW)	14.1 (3.4)	11.7 (2.3)	5.4 (4.5)	8.1 (3.4)	4.7 (3.4)	4.3 (2.8)	6.8 (2.3)	6.5 (6.5)	
Heat, Standard Amps (KW)	15.0 (3.4)	13.0 (2.6)	18.0 (15.0)	27.1 (11.2)	15.6 (11.2)	14.3 (9.4)	22.6 (7.8)	—	
Total FLA, Cooling	w/o Auxiliary Fan	23.9	24.1	6.9	13.8	5.3	5.8	11.9	5.8
	w/Auxiliary Fan	35.0	36.9	10.1	20.2	7.6	8.3	17.3	8.5
Heat, Explosion Proof	MCA w/o Aux Fan	31.5	30.6	10.8	18.1	8.8	8.5	15.3	11.5
	MOP w/o Aux Fan	42.8	39.1	15.4	24.6	12.9	12.2	20.7	17.3
	MCA w/Aux Fan	42.6	43.4	14.0	24.5	11.1	11.0	20.7	14.2
	MOP w/Aux Fan	53.9	51.9	18.6	31.0	15.2	14.7	26.1	20.0
Heat, Standard	MCA w/o Aux Fan	32.6	32.3	26.5	41.9	22.4	21.0	35.0	—
	MOP w/o Aux Fan	44.9	42.1	43.7	67.4	37.4	34.7	56.3	—
	MCA w/Aux Fan	43.7	45.1	29.7	48.3	24.7	23.5	40.4	—
	MOP w/Aux Fan	56.0	54.9	46.9	73.8	39.7	37.2	61.7	—
Unit LRA*	88 AMP	81 AMP	25 AMP	51 AMP	20 AMP	22 AMP	44 AMP	21 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

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

Ambient Condition	Sensible Capacity	Total Capacity
75°F (24°C)	13,110 BTUH	22,468 BTUH
85°F (29°C)	12,770 BTUH	21,160 BTUH
95°F (35°C)	12,290 BTUH	20,120 BTUH
105°F (41°C)	11,440 BTUH	18,400 BTUH
115°F (46°C)	11,040 BTUH	15,000 BTUH

Refrigeration Charge

Std.	4 lbs ea.
w/Receivers	14 lbs ea.

CFM @ 0.50" S.P.

Model		60 Hz	50 Hz
Base Unit	Max Outside Air	162	125
	Supply Air	1279	1030
with Purge Module	Purge Max Outside Air	1588	1286
	Non Purge Outside Air	355	290
	Non Purge Supply Air	1311	1075
with Chem Filter Module	Purge Max Outside Air	1555	1265
	Non Purge Outside Air	347	279
	Non Purge Supply Air	1255	1020

60 SERIES INPAC UNITS

Electrical Specifications for Standard Units

Model 62

Electric Power	230/240V 1Φ-60Hz	200V 1Φ-50Hz	460/480 3Φ-60Hz	230/240 3Φ-60Hz	415V 3Φ-50Hz	380V 3Φ-50Hz	200V 3Φ-50Hz	575V 3Φ-60Hz	
Fan Motor FLA	11.1	12.8	3.2	6.4	2.3	2.5	5.4	2.7	
Compressor Motor RLA	12.8	11.3	3.7	7.4	3.0	3.3	6.5	3.1	
Heat, Exp. Proof, Amps, (KW)	14.1 (3.4)	11.7 (2.3)	5.4 (4.5)	8.1 (3.4)	4.7 (3.4)	4.3 (2.8)	6.8 (2.3)	6.5 (6.5)	
Heat, Standard Amps (KW)	15.0 (3.4)	13.0 (2.6)	18.0 (15.0)	27.1 (11.2)	15.6 (11.2)	14.3 (9.4)	22.6 (7.8)	—	
Total FLA, Cooling	w/o Auxiliary Fan	23.9	24.1	6.9	13.8	5.3	5.8	11.9	5.8
	w/Auxiliary Fan	35.0	36.9	10.1	20.2	7.6	8.3	17.3	8.5
Heat, Explosion Proof	MCA w/o Aux Fan	31.5	30.6	10.8	18.1	8.8	8.5	15.3	11.5
	MOP w/o Aux Fan	42.8	39.1	15.4	24.6	12.9	12.2	20.7	17.3
	MCA w/Aux Fan	42.6	43.4	14.0	24.5	11.1	11.0	20.7	14.2
	MOP w/Aux Fan	53.9	51.9	18.6	31.0	15.2	14.7	26.1	20.0
Heat, Standard	MCA w/o Aux Fan	32.6	32.3	26.5	41.9	22.4	21.0	35.0	—
	MOP w/o Aux Fan	44.9	42.1	43.7	67.4	37.4	34.7	56.3	—
	MCA w/Aux Fan	43.7	45.1	29.7	48.3	24.7	23.5	40.4	—
	MOP w/Aux Fan	56.0	54.9	46.9	73.8	39.7	37.2	61.7	—
Unit LRA*	88 AMP	81 AMP	25 AMP	51 AMP	20 AMP	22 AMP	44 AMP	21 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

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

Ambient Condition	Sensible Capacity	Total Capacity
75°F (24°C)	26,220 BTUH	43,430 BTUH
85°F (29°C)	25,360 BTUH	41,900 BTUH
95°F (35°C)	24,380 BTUH	38,800 BTUH
105°F (41°C)	22,680 BTUH	36,310 BTUH
115°F (46°C)	21,850 BTUH	29,490 BTUH

Refrigeration Charge

Std.	4 lbs ea.
w/Receivers	14 lbs ea.

CFM @ 0.50" S.P.

Model		60 Hz	50 Hz
Base Unit	Max Outside Air	162	125
	Supply Air	1279	1030
with Purge Module	Purge Max Outside Air	1588	1286
	Non Purge Outside Air	355	290
	Non Purge Supply Air	1311	1075
with Chem Filter Module	Purge Max Outside Air	1555	1265
	Non Purge Outside Air	347	279
	Non Purge Supply Air	1255	1020

60 SERIES INPAC UNITS

Electrical Specifications for Standard Units

Model 63

Electric Power	230/240V 1Φ-60Hz	200V 1Φ-50Hz	460/480 3Φ-60Hz	230/240 3Φ-60Hz	415V 3Φ-50Hz	380V 3Φ-50Hz	200V 3Φ-50Hz	575V 3Φ-60Hz	
Fan Motor FLA	11.1	12.8	3.2	6.4	3.1	3.4	5.4	2.7	
Compressor Motor RLA	12.8 (25.6)	11.3 (22.6)	3.7 (7.4)	7.4 (14.8)	3.0 (6.0)	3.3 (6.6)	6.5 (13.0)	3.1 (6.2)	
Heat, Exp. Proof, Amps, (KW)	14.1 (3.4)	11.7 (2.3)	5.4 (4.5)	8.1 (3.4)	4.7 (3.4)	4.3 (2.8)	6.8 (2.3)	6.5 (6.5)	
Heat, Standard Amps (KW)	15.0 (3.4)	13.0 (2.6)	18.0 (15.0)	27.1 (11.2)	15.6 (11.2)	14.3 (9.4)	22.6 (7.8)	—	
Total FLA, Cooling	w/o Auxiliary Fan	23.9	24.1	6.9	13.8	5.3	5.8	11.9	5.8
	w/Auxiliary Fan	35.0	36.9	10.1	20.2	7.6	8.3	17.3	8.5
Heat, Explosion Proof	MCA w/o Aux Fan	31.5	30.6	10.8	18.1	8.8	8.5	15.3	11.5
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	MOP w/Aux Fan	56.0	54.9	46.9	73.8	39.7	37.2	61.7	—
Unit LRA*	101 AMP	92 AMP	29 AMP	58 AMP	23 AMP	26 AMP	51 AMP	24 AMP	
Operating Range	216V–253V	180V–220V	432V–506V	216V–253V	373V–456V	342V–418V	180V–220V	517V–600V	

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

Ambient Condition	Sensible Capacity	Total Capacity
75°F (24°C)	26,220 BTUH	44,330 BTUH
85°F (29°C)	25,550 BTUH	42,330 BTUH
95°F (35°C)	24,590 BTUH	40,250 BTUH
105°F (41°C)	22,890 BTUH	36,810 BTUH
115°F (46°C)	22,080 BTUH	30,010 BTUH

Refrigeration Charge

Std.	4 lbs ea.
w/Receivers	14 lbs ea.

CFM @ 0.50" S.P.

Model		60 Hz	50 Hz
Base Unit	Max Outside Air	162	125
	Supply Air	1279	1030
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with Chem Filter Module	Purge Max Outside Air	1555	1265
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