

# INNOVATIVE POLARIS AIR:

## Self contained indoor package system. No outdoor unit!



**PLUS** built in Smart Temperature Control capabilities

With no outdoor unit you will:

1. Reduce potential "noise" problems with your neighbours
2. Eliminate compliance with Council requirements for outdoor units
5. Ability to introduce air conditioning in apartments or offices
3. No loss of garden or path space and access
4. **Add value** to your investment with no ugly outdoor units
5. Low noise level 40 dBA
6. Huge energy savings when running only one room

**Smart air conditioning**



**Nu-Life**  
IMPORTS 2004 P/L

# INPAC

## Horizontal Indoor Air Conditioning System

INPAC units are designed to accommodate the ever-changing installation requirements of the market. The devices are designed for locations where installing an external condenser unit is not possible.

All INPAC package models are shipped as factory pre-charged with refrigerant. Low profile design allows the unit to be installed on the floor or suspended from the ceiling via integral structural channels.

INPAC devices feature a straight forward airflow configuration. The units are completely factory wired and piped. INPAC devices are designed to allow easy passage through doors, hallways and elevators. Installing time is minimised with all models. When planning an installation, consider power supply, thermostat, condenser drain line, duct run, service clearances, exhaust duct to an external wall and a rain protection damper. A remote thermostat device is field supplied and installed to control the unit operation.

All cabinets are constructed of heavy gauge galvanized steel. The entire unit interior is insulated with 1/2" thick, 2lb density insulation. Service panels are equipped with lifting handles for ease of removal and handling.

The devices have one or more refrigeration circuits. All models use high efficiency compressors. Each refrigeration circuit is thoroughly evacuated and fully charged with R407C "green" refrigerant before shipment. Internal motor overload protection is provided, with permanent split capacitors. Compressors are mounted on rubber isolators to minimise vibration transmission. Each refrigeration circuit includes an expansion device, liquid line filter drier, a high refrigerant pressure safety switch and a low refrigerant pressure switch (for compressor protection).

The evaporator and condenser coils are constructed of in-house produced internally enhanced copper tubes mechanically bonded to enhance aluminum fins duty. Both fins are employed in a draw-thru configuration. The large evaporator coil face area reduce noise levels, air pressure drops and minimises potential condensate blow-off.

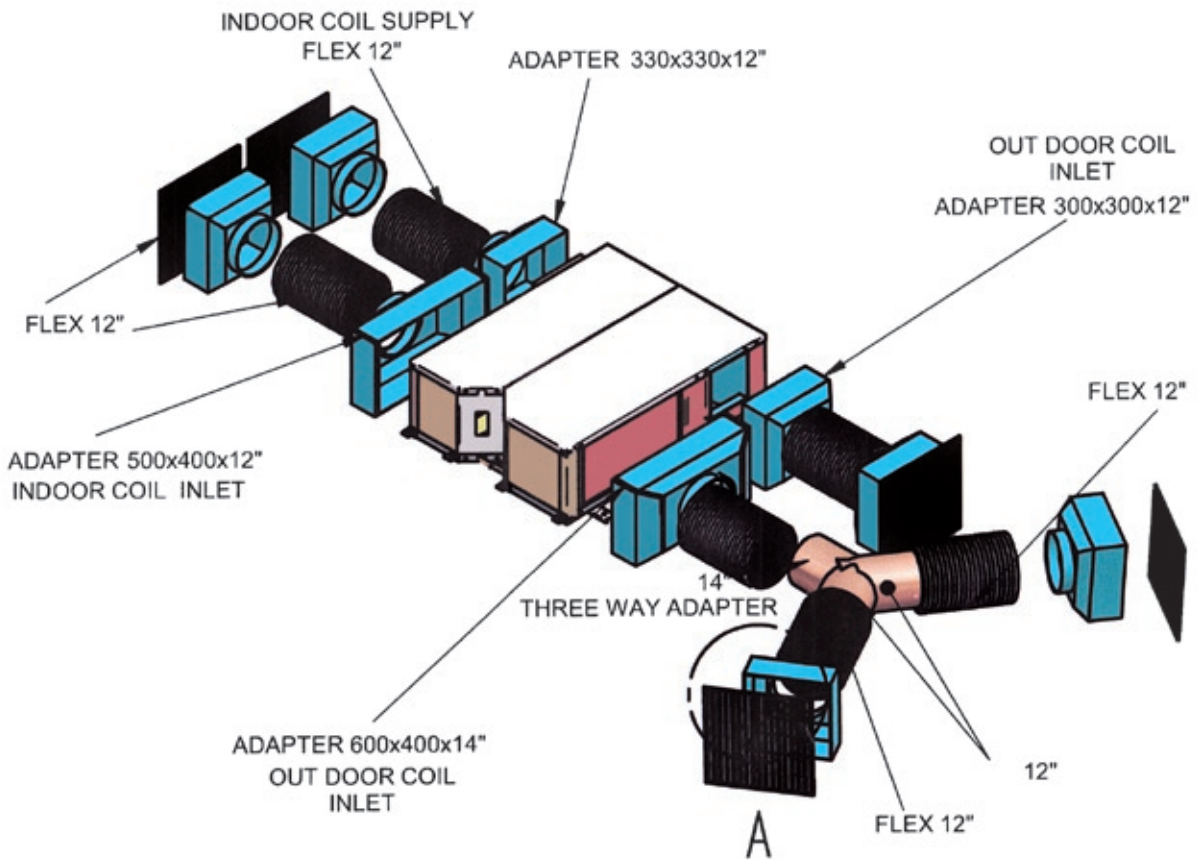
Forward curved, double inlet and double width centrifugal blowers are used for both evaporator and condenser air movement. Blower wheels are fabricated of galvanized steel. Blowers employ solid steel shafts, supported in permanently lubricated ball bearing. All blowers are direct driven. Variable pitch motor sheaves allow for field adjustment of blower speed.

All units are completely factory wired with all necessary controls. Current overload protection is provided on compressor, evaporator and condenser fan motors. All units are shipped with 1 inch thick medium-efficiency cleanable filters factory installed.

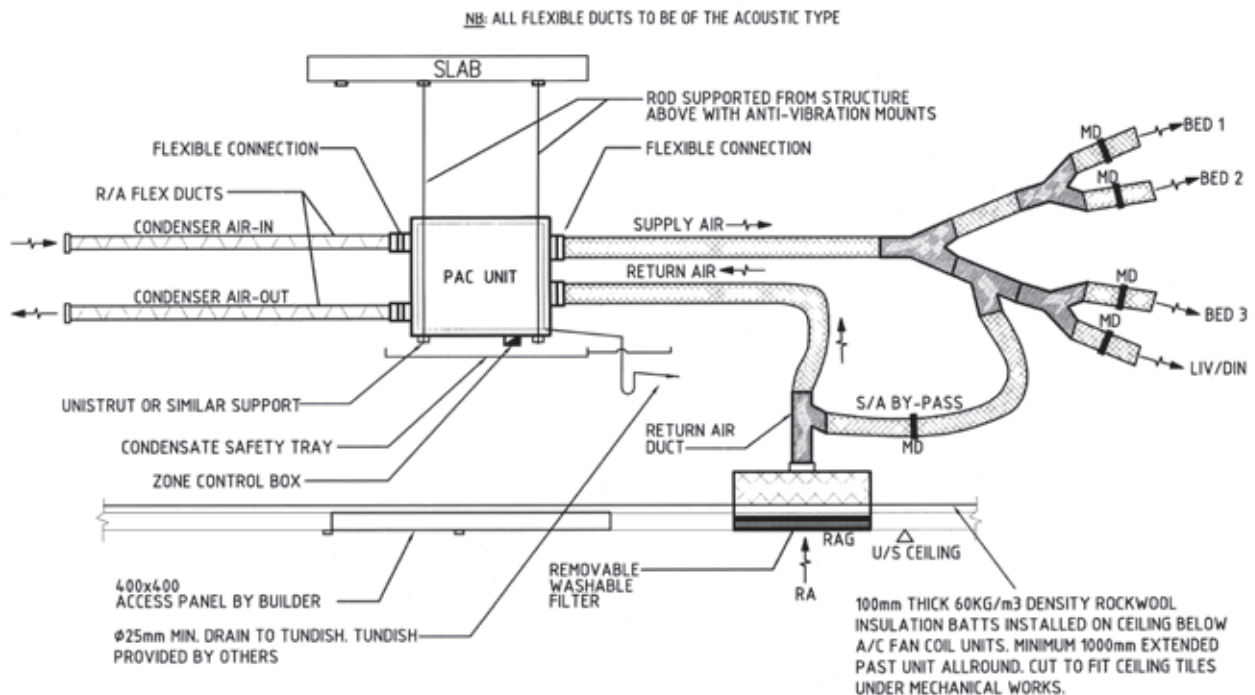
**Available as a split system.**



# Typical Unit Components & Accessories



# Typical INPAC Unit Installation



# Package Unit INPAC Series

Model		Inpack 1.2	Inpack 1.6	Inpack 2.0	Inpack 2.5	Inpack 3.0
Capacity Nominal	Cooling kW	4.2	5.6	7	8.75	10
	Heating kW	4.2	5.6	7	8.75	10
Current Rating						
Single Phase	Amp	6.8	8.4	11.3	14.2	16.3
Three Phase	Amp	-	-	3.8x3	4.7x3	5.4x3
Power Input	kW	1.45	2.1	2.4	3	3.4
Power Factor	EER	2.9	2.9	2.9	2.9	2.9
	COP	2.9	2.9	2.9	2.9	2.9
Supply Fan High Speed	l/s	260	330	425	425	566
Supply Air Duct Size Ø	mm	300	330	350	350	350
Return Air Duct Size Ø	mm	300	300	300	350	350
	Pa	100	100	100	100	100
Power Supply	PH/V/Hz	1/240/50	1/240/50	1/240/50	1/240/50	1/240/50
		-	-	3/415/50	3/415/50	3/415/50
Humidity Removal	litre/hour	1.15	1.6	2.2	2.6	3.1
Drain Pipe	mm	20	20	20	20	20
Sound Level @ 1 meter	dB (A)	40	40	40	40	40
Refrigerant Charge R407C	gr	820	1500	1900	1900	2850
Compressor Type	Reciprocate or Rotary					
Dimension H X L X D	mm	310 X 800 X 800	310 X 1050 X 1250	410 X 1050 X 1250	410 X 1050 X 1250	490 X 1360 X 1360
Weight	kg	61	87	95	97	108
Condensor Fan Air Flow	l/s	354	567	708	708	850
	Pa	80pa	80pa	80pa	80pa	80pa
Condensor Air Inlet Duct Max. 4 Meters	Round duct Ø	1 X Ø 250mm	2 X Ø 300mm	2 X Ø 300mm	2 X Ø 300mm	2 X Ø 350mm
	Rectangle duct size	1X160mmX325mm	2X200mmX380mm	2X200mmX380mm	2X200mmX380mm	2X200mmX435mm
Condensor Air Outlet Duct Max. 4 Meters	Round duct Ø	1 X Ø 250mm	1 X Ø 300mm	1 X Ø 300mm	1 X Ø 300mm	1 X Ø 350mm
	Rectangle duct size	1X160mmX325mm	1X200mmX380mm	1X200mmX380mm	1X200mmX380mm	1X200mmX435mm

Nominal cooling capacity based on:

Outdoor temperature 35°C (95°F)  
 Indoor air temperature 26.7°C (80°F) DB  
 19.4°C (66.9°F) WB

Nominal heating capacity based on:

Outdoor temperature 6°C (42.8°F)  
 Indoor air temperature 21°C (69.8°F) DB

Technical data and dimensions may be subject to changes without prior notice due to continuous products development and improvement.