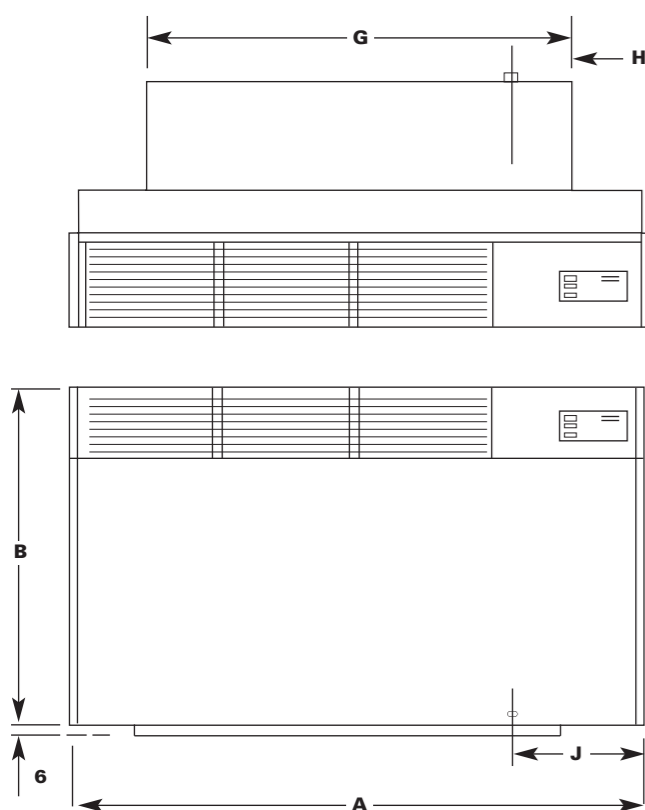
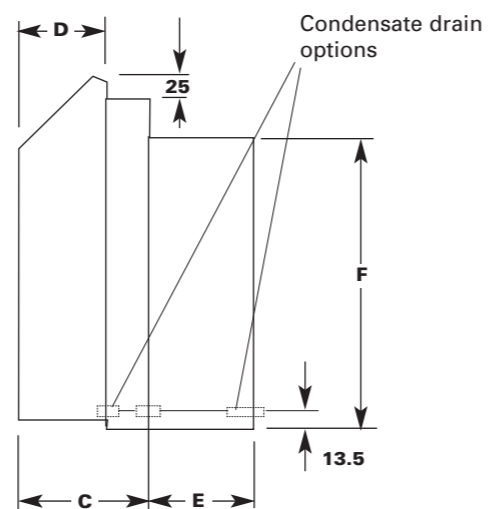


**PHYSICAL DATA**

**DIMENSIONS:** millimetres

	A	B	C	D	E	F	G	H	J	K
<b>263</b>	961	601	200	165	260	520	882	204	244	892
<b>353</b>	961	601	200	165	260	520	882	204	244	892
<b>503</b>	1261	601	232	165	260	520	1150	300	356	1160


**WEIGHTS:** Kgs

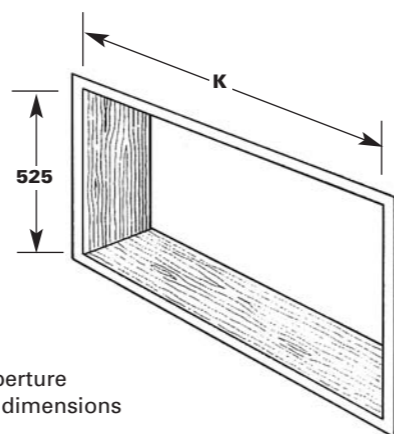
	263	353	503
<b>NETT</b>	68	73	95
<b>GROSS</b>	70	75	98

**PACKING CASE SIZES:** millimetres

	263	353	503
<b>LONG</b>	988	988	1289
<b>WIDE</b>	553	553	585
<b>HIGH</b>	698	698	698

**INSTALLATION:**

Models must be installed "through wall" between 150mm above floor level and 200mm below ceiling level. An aperture, lined with 15mm timber as shown should be provided through an outside wall. It is recommended that accessory kits are fitted and method of condensate disposal determined, before the unit is fixed in position. The unit is supplied with full installation instructions, self adhesive gasket strip and louvered rear grille. A grille surround kit is available when an aesthetic external finish is required. For installations where the external wall is greater than 12" a thick wall (baffle board & brackets) kit is available to ensure correct air discharge. For installations involving walls over 19" thick consult Colgijan Merault Ltd for technical advice.


 Lined aperture  
Internal dimensions

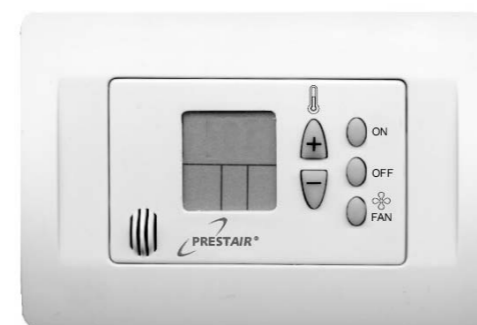
All data subject to standard tolerances. Models, dimensions and specifications are subject to alteration without prior notice.



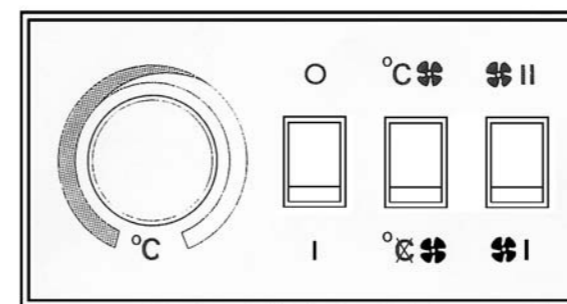
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**CONSOLE UNITS  
IN WALL AIR CONDITIONERS AND AIR TO AIR HEAT PUMPS**
**TECHNICAL SPECIFICATIONS**
**MODEL RANGES**

Prestair console units offer a range of three quiet and efficient "in wall" air conditioners from 2.7 kW to 5.5 kW and two Air to Air reverse cycle heatpumps utilising the two larger unit sizes. Each unit is available with either Electronic or Electro-mechanical controls and all options are fitted with low ambient kit, crankcase heater and HP cut-out as standard. A slatted aluminium external grille can be supplied with each unit to give an aesthetic finish to the rear discharge.

**CONTROL OPTION**
**Electronic Controls**


Units prefix 'P' include self contained control box with positive press action switches and illuminated display offering thirteen temperature set points arranged in 1°C increments. The control has three fan speeds, with in built memory to recall last setting and random compressor time delay device. With optional kits the unit can be operated remotely and/or with group control facility up to 99 units can be controlled together within the same conditioned space / building.

**Electro-Mechanical Controls**


Units prefix 'XP' incorporate Rotary thermostat offering an infinite number of temperature settings within the thermostat range and illuminated on/off switch. There are two fan speed options, Automatic/Fan only control and a compressor time delay device.


**FEATURES**

Styled to blend with modern environments the units are suitable for high, low and mid wall mounting, through an outside wall and incorporate indoor and outside drain point options. Where gravity drainage is impractical, units accept an approved condensate pump and models 263 and 353 are also fitted with condenser fan slinger ring.

Formed from zinc coated sheet steel, with casing finished, as standard in grey embossed texture, polyester powder paint.

A high efficiency compressor, complete with overload protector and suction accumulator together with multi-circuit copper tube/aluminium fin heat exchange coils, with refrigerant control through capillary, ensure smooth quiet reliability. Other features include full length crossflow fan coupled to a variable speed "sealed for life" motor, washable return air filter and easily removable one piece fascia cover for service access.

All units, except 263, are also available suitable for 380-415v 3 phase 50 Hz (4 wire) supply, 230v 1 phase 60 Hz supply and 440v 3 phase 60 Hz (4 wire) supplies.

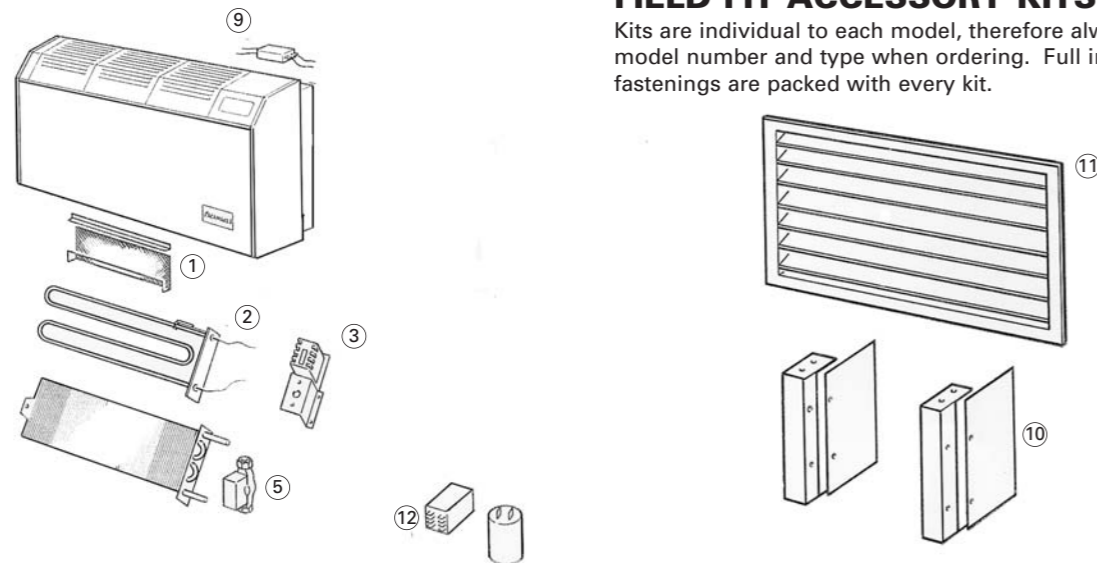
Spare parts (or suitable alternatives) will be made available for a period of 5 years after the cessation of manufacture of the particular type of equipment specified unless other contract arrangements have been previously agreed

<b>TOTAL COOLING DUTY</b>		<b>263</b>	<b>353</b>	<b>503</b>
<b>At BS2852 Condition 'A'</b>				
Ambient 35°C (95°F)	Btu/hr	9200	13000	18800
Room 27°C/19°C (80°F/67°F)	KCal/hr	2300	3250	4700
	kW	2.70	3.81	5.50
	SHR	0.71	0.70	0.68
	EER	9.00	9.10	8.30
<b>At BS2852 Condition 'B'</b>				
Ambient 46°C (115°F)	Btu/hr	8000	11500	16300
Room 29°C/19°C (85°F/67°F)	KCal/hr	2000	2875	4075
	kW	2.35	3.37	4.80
	SHR	0.82	0.83	0.82
	EER	6.60	7.00	6.00
<b>At BS2852 Condition 'C'</b>				
Ambient 27°C (80°F)	Btu/hr	8300	12000	16850
Room 21°C/15°C (70°F/59°F)	KCal/hr	2075	3000	4110
	kW	2.43	3.52	4.94
	SHR	0.74	0.72	0.71
	EER	9.20	9.10	8.30
<b>Indoor fan capacity</b>				
cfm (m³/hr)	high 3	310 (527)	385 (655)	525 (892)
	med 2	280 (476)	335 (570)	470 (800)
	low 1	240 (408)	300 (510)	420 (714)
<b>Outdoor fan capacity</b>				
cfm (m³/hr)		660 (1122)	640 (1088)	950 (1615)
<b>Heating</b> (Accessory kits) see Note 1				
Electric Heater	kW	2.5	2.5	2.5
L.P.H.W. Coil	kW	2.8	3.2	4.4
<b>ELECTRICAL CHARACTERISTICS</b>				
<b>220-240/1/50 Hz supply</b>		•	•	•
<b>380-415/50 Hz (4 wire)</b>		n/a	•	•
<b>Cooling only F.L.A.</b>				
(See note 2)	1PH	6.2	7.6	12.6
	3PH	n/a	3.1	4.8
<b>Cooling Run Amps</b>				
	1PH	5.2	6.3	10.9
	3PH	n/a	3.0	4.6
<b>Cooling Start Amps</b>				
	1PH	26.0	35.0	48.0
	3PH	n/a	15.0	23.0
<b>F.L.A. with Electric Heater</b>				
	1PH	10.6	10.7	10.8
	3PH	n/a	10.7	10.8
<b>Recommended Switch/Fuse</b>				
Amp rating (see note 3)	1PH	13.0	13.0	20.0
	3PH	n/a	16.0	16.0

\* Unless otherwise stated all performance data is rated at high fan speed 240/1/50 Hz supply.

**FIELD FIT ACCESSORY KITS**

Kits are individual to each model, therefore always quote the model number and type when ordering. Full instructions and fastenings are packed with every kit.



**Key 11.** Grille is supplied with unit and is not part of the grille surround kit.

(see note 4)

<b>TOTAL HEATING OUTPUT</b> (not including auxiliary heater)		<b>353</b>	<b>503</b>
<b>At Ambient 18°C 50% RH</b>			
Room 20°C	Btu/hr	13000	21500
	KCal/hr	3250	5375
	kW	3.81	6.30
	COP	2.58	2.90
<b>At Ambient 7°C 85% RH</b>			
Room 20°C	Btu/hr	10600	17800
	KCal/hr	2650	4450
	kW	3.10	5.20
	COP	2.23	2.70
<b>At Ambient - 1°C 80% RH</b>			
Room 20°C	Btu/hr	7700	12500
	KCal/hr	1925	3125
	kW	2.25	3.66
	COP	1.74	2.30
<b>At Ambient - 5°C 80% RH</b>			
Room 20°C	Btu/hr	6250	11600
	KCal/hr	1562	2900
	kW	1.83	3.39
	COP	1.50	2.20
Electric Heater Kit	kW	2.5	2.5

**ELECTRICAL CHARACTERISTICS**

Heating F.L.A. with electric heater (see note 5)	1PH	19.0	22.5
	3PH	13.8	15.0
Heating Run Amps with electric heater (see note 6)	1PH	18.4	21.7
	3PH	13.6	14.8
Start Current Amps with electric heater	1PH	45.0	56.0
	3PH	25.0	33.0
Recommended switch fuse AMP RATING (see note 3)	1PH	20.0	25.0
	3PH	16.0	20.0

**Notes on Conditions of Performance**

- L.P.H.W. coil accessory kit performance rated at 273 l/hr (60 gph) 82°C EWT, 19°C EAT (180°F EWT, 66°F EAT).
- Cooling FLA are at Ambient 49°C (120°F), Room 27°C/19°C (80°F/66°F), the highest ambient condition for continuous operation.
- Fuse ratings to BS 1362 and BS 88.
- Heat pump cooling highest operating condition for continuous operation is Ambient 35°C (100°F), Room 27°C/19°C (80°F/66°F).
- Heat pump heating FLA are at Ambient 24°C (75°F), Room 27°C/16°C (80°F/61°F), the highest ambient condition for continuous heating operation.
- Heat pump heating Run Amps are at Ambient 18°C (65°F) Room 20°C/12°C (68°F/54°F)

KEY NO.	KIT	MODEL TYPES	BRIEF DESCRIPTION
1	Fresh Air Filter <input type="checkbox"/>	All	Washable filter for fresh air option
2	Electric Heater	All	2.5 kW sheathed element, necessary on heat pump units
3	Contactor Kit	XP	Necessary when fitting heater to any electro-mechanical unit
5	L.P.H.W. Coil	All	Includes motorised valve. NOT suitable for heat pump units
9	Suppressor/filter (electrical)	P	Eliminates mains interface in most heavy industrial situations
10	Thick Wall Kit	All	Baffle boards & brackets for walls over 12" thick
11	External grille surround	All	Presents a neat finish to aperture through the wall
12	C.S.R. Kit	All	Offers improved starting characteristics for single phase units

Not suitable for installations incorporating LPHWC kit.