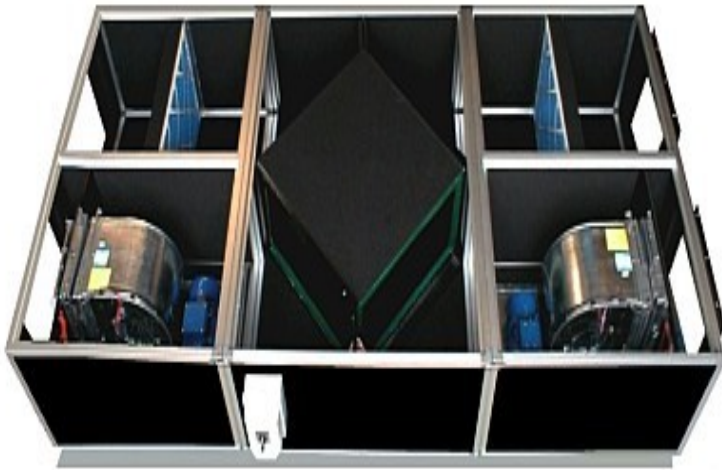


Supply Air, Permanent Extract with Heat Recovery Belt Driven Range SAPER CT or PP - BD

**Packaged Air Handling for General Ventilation Applications where
Energy Savings and Environmentally Friendly Engineering Combine**

Airflow's from 0.4 to 5.5 m³/Sec – 0 to 500 Pa ESP



Aluminium Pentapost Construction and Zintec Steel Panels, lined with 25 mm Pyrosorb Insulation, finished in Satin Black Powdercoat Paint, EU 4 Panel Filters fitted either side of Heat Exchanger, 'Top Up' Electric Heater fitted with Integral Thermostat/s as required, LPHW Option Available, Double Inlet Centrifugal Fans, TEFC 4 Pole Motor, (Inverter Speed Controllers available). Full Controls Package including :- Mains Isolator, Fan Overload & Contactor, Element Overheat Thermostat, Circuit Breaker, Heater Relay and Airflow Failure Switch c/w Volt Free Contacts. Access is available on either side and Top or Bottom. Panels are removable by ½ Turn Cam Latches. Rectangular or Circular Fan Discharge Spigots.

Options and Accessories

- DSK - Double Skin Panels
- CM - Ceiling Mounted Version
- WP - Weatherproof Version
- FBPD - Face & Bypass Damper & Motor
- LPHW - Low Pressure Hot Water Coil
- HEF - High Efficiency Filters EU 8 - 14
- WMSC - Wall Mounted Speed Controller
- SR - Start Relays & Control Panels
- TFE - Twin Fan Extract
- TC - Thyristor Controlled Heating Available
- TD - Telescopic Duct / Wall Liner
- WL - Weather Louvre c/w Bird Screen
- SIL - Silencers
- CP - Control Panels



Unit 6, Viscount Court, Walworth Business Park, Andover, Hampshire SP10 5NW England
Telephone: +44 (0) 1264 333305 – Facsimile: +44 (0) 1264 333310 – Email: sales@pumaproducts.co.uk

www.pumaproducts.co.uk

Due to our policy of continued improvement and development, we reserve the right to alter designs and specifications without notice.
© Copyright 2014 – Puma Products Limited™ (Rev H)

SAPER - Technical Performance and Specification Chart

Model Number	SAPER 400/ADN 160	SAPER 400/ADN 180	SAPER 450/ADN 200	SAPER 500/ADN 225	SAPER 550/ADN 250	SAPER 650/ADN 280	SAPER 750/ADN 315	SAPER 850/ADN 355	SAPER 1000/ADN 400	SAPER 1200/ADN 450	SAPER 1500/ADN 500	
Belt Driven Range - Supply & Extract Fan Airflow in m³/Sec - WITHOUT Face & Bypass												
External Static Pressure	0 Pa	0.4	0.5	0.8	1.0	1.2	1.6	2.1	2.6	3.0	4.0	5.5
100 Pa	0.35	0.4	0.75	0.95	1.1	1.5	2.0	2.5	2.9	3.9	5.4	5.4
200 Pa	0.3	0.35	0.7	0.8	1.0	1.4	1.9	2.4	2.8	3.8	5.3	5.3
300 Pa	0.25	0.3	0.6	0.75	0.9	1.3	1.8	2.3	2.7	3.7	5.2	5.2
400 Pa	0.2	0.25	0.55	0.7	0.85	1.2	1.7	2.2	2.6	3.6	5.1	5.1
500 Pa	0.15	0.2	0.5	0.65	0.75	1.1	1.6	2.0	2.5	3.5	5.0	5.0
Heat Exchanger Efficiency and Duty based upon nominal Airflow, - 1°C Ambient and 21°C Internal	47%	44%	49%	48%	47%	43%	45%	44%	44%	48%	47%	47%
Motor Running Current Three Phase 415 V ac	5.6 kW	6.4 kW	9.6 kW	10.8 kW	13.7 kW	18.2 kW	24.2 kW	30.2 kW	34.7 kW	50.3 kW	68.4 kW	68.4 kW
Motor Starting Current Three Phase 415 V ac	0.55 kW 4 P 1.65 A / Ph	0.75 kW 4 P 2.1 A / Ph	1.1 kW 4 P 2.9 A / Ph	1.5 kW 4 P 3.7 A / Ph	2.2 kW 4 P 5.2 A / Ph	3.0 kW 4 P 6.9 A / Ph	4.0 kW 4 P 9.0 A / Ph	5.5 kW 4 P 12.0 A / Ph	7.5 kW 4 P 15.3 A / Ph	11.0 kW 4 P 20.6 A / Ph	15 kW 4 P 30.6 A / Ph	15 kW 4 P 30.6 A / Ph
Motor Starting Current Three Phase 415 V ac	6.6 A / Ph	8.8 A / Ph	14.5 A / Ph	19.0 A / Ph	27.0 A / Ph	38.0 A / Ph	51.6 A / Ph	71.4 A / Ph	100 A / Ph	134 A / Ph	200 A / Ph	200 A / Ph
Electric Heater @ 380/415 V ac 3 Phase, 50 Hz												
Top Up Heater Capacity	6 kW	6 kW	9 kW	9 kW	12 kW	18 kW	24 kW	30 kW	36 kW	48 kW	72 kW	72 kW
Amps	8.7 8.7 8.7	8.7 8.7 8.7	13 13 13	13 13 13	17 17 17	26 26 26	34 34 34	43 43 43	52 52 52	68 68 68	104 104 104	104 104 104
Dimensions in Millimetres - Refer to Certified Drawing for full Dimensional Data												
Length	2400	2400	2550	2600	2700	2900	3200	3250	3650	3650	3850	3850
Width	1290	1290	1490	1690	1690	2090	2290	2490	2690	2890	3090	3090
Height	550	550	585	635	685	785	910	1010	1160	1360	1660	1660
Appx. Noise Levels refer to Fan Curve	79 dB A	78 dB A	81 dB A	83 dB A	83 dB A	85 dB A	85 dB A	86 dB A	84 dB A	85 dB A	85 dB A	85 dB A
Weight (Kg)	280	280	300	340	450	600	800	950	1100	1200	1350	1350

SAPER - Technical Performance and Specification Chart

Model Number	SAPER 450/ADN 200 - FBD	SAPER 450/ADN 200	SAPER 550/ADN 250 - FBD	SAPER 650/ADN 280 - FBD	SAPER 650/ADN 280	SAPER 750/ADN 315 - FBD	SAPER 1000/ADN 400 - FBD	SAPER 1200/ADN 450 - FBD	SAPER 1200/ADN 450 - FBD	SAPER 1500/ADN 500 - FBD
Belt Driven Range - Supply and Extract Fan Airflow in m³/Sec - WITH Face & Bypass										
External Static Pressure										
0 Pa	0.4	0.5	0.8	1.0	1.2	1.6	2.1	2.6	3.0	4.0
100 Pa	0.35	0.4	0.75	0.95	1.1	1.5	2.0	2.5	2.9	3.9
200 Pa	0.3	0.35	0.7	0.8	1.0	1.4	1.9	2.4	2.8	3.8
300 Pa	0.25	0.3	0.6	0.75	0.9	1.3	1.8	2.3	2.7	3.7
400 Pa	0.2	0.25	0.55	0.7	0.85	1.2	1.7	2.2	2.6	3.6
500 Pa	0.15	0.2	0.5	0.65	0.75	1.1	1.6	2.0	2.5	3.5
Heat Exchanger Efficiency and Duty based upon nominal Airflow, - 1°C Ambient and 21°C Internal	47%	44%	49%	48%	47%	43%	45%	44%	44%	48%
Motor Running Current Three Phase 415 V ac	0.55 kW 4 P 1.65 A / Ph	0.75 kW 4 P 2.1 A / Ph	1.1 kW 4 P 2.9 A / Ph	1.5 kW 4 P 3.7 A / Ph	2.2 kW 4 P 5.2 A / Ph	3.0 kW 4 P 6.9 A / Ph	4.0 kW 4 P 9.0 A / Ph	5.5 kW 4 P 12.0 A / Ph	7.5 kW 4 P 15.3 A / Ph	11.0 kW 4 P 20.6 A / Ph
Motor Starting Current Three Phase 415 V ac	6.6 A / Ph	8.8 A / Ph	14.5 A / Ph	19.0 A / Ph	27.0 A / Ph	38.0 A / Ph	51.6 A / Ph	71.4 A / Ph	100 A / Ph	134 A / Ph
Electric Heater @ 380/415 V ac 3 Phase, 50 Hz										
Top Up Heater Capacity	6 kW	6 kW	9 kW	9 kW	12 kW	18 kW	24 kW	30 kW	36 kW	48 kW
Amps	8.7 8.7 8.7	8.7 8.7 8.7	13 13 13	13 13 13	17 17 17	26 26 26	34 34 34	43 43 43	52 52 52	68 68 68
Dimensions in Millimetres - Refer to Certified Drawing for full Dimensional Data										
Length	2550	2550	2700	2900	2900	3200	3650	3650	3650	3850
Width	1490	1490	1690	2090	2090	2290	2690	2890	2890	3090
Height	585	585	685	785	785	910	1160	1360	1360	1660
Appx. Noise Levels refer to Fan Curve	79 dB A	78 dB A	81 dB A	83 dB A	83 dB A	85 dB A	85 dB A	86 dB A	84 dB A	85 dB A
Weight (Kg)	300	300	450	600	600	800	1100	1200	1200	1350