

Key features

Type: Centrifugal roof extract
 Application: Commercial/Industrial
 Control options: Auto changeover/Duty sharing

The range

A high performance range of roof mounted run and standby fans with bottom inlet. Ideally suited where powerful low noise ducted ventilation is required. Ideal where a duty standby fan is required, particularly where hygiene standards are critical: kitchens, restaurants, hotels, pubs, offices, factories, schools and shops. Designed for roof installations where inside space and access is at a premium, Xpelair XTR units connect directly to extract duct work. Xpelair XTR fans can be fitted directly to a weathered upstand or plenum box. Once fitted access for planned maintenance is from the outside with easy access to the motors. A run and standby and duty sharing controller is available. Alternative designs, such as units with rear inlet and air input versions are also available to special order. Please contact Xpelair CustomVent Division where we specialise in bespoke solutions. Further details page 288.



Technical specification

Casings Unit casings are manufactured from best quality marine grade aluminium with access from top. Standard mounting are on to builder's work curb. All permanent fixings are rivetted and all removable items are retained via setscrews and nuts. Fan mounting plate incorporates 'damped panel' technology which is easily removable via access panel. Fan Deck incorporates 'damped panel technology' developed to considerably reduce fan deck resonance. Xpelair's visco-elastic polymer laminate construction is particularly effective at reducing resonance in the lower frequency octave bands. Fans Single-inlet, single width, or double-inlet, doublewidth, centrifugal type with high efficiency, low noise, forward-curved, multiblade galvanised sheet steel impellers housed within galvanised steel scrolls. Motor/impeller assemblies are statically and dynamically balanced, in two planes, in accordance with BS 5265, Part 1, 1979 to G2.5. Fans are mounted individually on to fan decks to facilitate easy removal. Motors are totally enclosed, high-efficiency, split capacitor, external rotor type with power factors of better than 0.9. Max. ambient operating temp. at least 40°C. (Motors rated to 50°C are available to special order.) Bearings are sealed-for-life, maintenance-free, ball bearing type with a minimum life expectancy of 50,000 hours under design operating conditions. Thermal contactors are incorporated into the windings to ensure overload protection. Insulation is to Class B or F with enclosure to IP44 or IP54. Electrical supply is 220-240V single phase 50Hz or 400-415V three phase 50Hz. Terminal Box Electrical connections are wired via an external IP54 terminal box, with removable cover, in accordance with I.E.E. 16th. Edition, (BS7671), and tested to ensure full earth continuity. Auto changeover with duty sharing run and standby is used with this model. Controllers Suitable for use with 5 step transformer speed controller and Auto changeover controller.

Product variations

	XTR600	XTR500/5	XTR500/3	XTR500/2	XTR500/4	XTR500/1	XTR400/3	XTR400/2	XTR400/1	XTR315/2	XTR315/1	XTR250	XTR200	XTR150	XTR125	XTR100
Spigot diam	600	500	500	500	500	500	400	400	400	315	315	250	200	150	125	100
Airflow (m3/s)	0.00	0.00	0.00	1.55	1.89	1.28	0.00	1.05	0.72	0.70	0.56	0.54	0.24	0.19	0.13	0.07
Airflow (m3/s)	0.00	1.95	0.00	1.47	1.80	1.19	0.00	1.02	0.70	0.68	0.53	0.51	0.23	0.19	0.12	0.07
Airflow (m3/s)	0.00	1.85	0.00	1.39	1.69	1.10	0.00	0.98	0.68	0.66	0.49	0.46	0.21	0.18	0.12	0.06
Airflow (m3/s)	0.00	1.74	0.00	1.28	1.58	0.97	0.00	0.95	0.66	0.64	0.43	0.40	0.19	0.17	0.11	0.06
Airflow (m3/s)	2.75	1.62	0.00	1.17	1.44	0.83	1.00	0.91	0.64	0.62	0.33	0.30	0.18	0.16	0.11	0.05
Airflow (m3/s)	2.70	1.39	0.00	1.00	1.24	0.60	0.92	0.85	0.58	0.56	0.03	0.03	0.15	0.14	0.10	0.05
Airflow (m3/s)	2.64	0.00	0.00	0.00	0.00	0.00	0.00	0.80	0.53	0.52	0.00	0.00	0.14	0.12	0.09	0.04
Airflow (m3/s)	2.50	1.04	0.00	0.78	0.78	0.20	0.86	0.75	0.48	0.47	0.00	0.00	0.12	0.11	0.08	0.04
Airflow (m3/s)	2.22	0.00	0.00	0.00	0.00	0.00	0.00	0.68	0.35	0.34	0.00	0.00	0.10	0.09	0.07	0.03
Airflow (m3/s)	1.74	0.60	0.00	0.11	0.00	0.00	0.75	0.58	0.17	0.16	0.00	0.00	0.07	0.07	0.05	0.00
Airflow (m3/s)	0.67	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.05	0.04	0.03	0.00
Airflow (m3/s)	0.13	0.00	1.61	0.00	0.00	0.00	0.40	0.01	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00
Airflow (m3/s)	0.00	0.00	1.53	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nominal fan speed	840	800	1300	800	770	710	1130	1210	1100	1100	1300	1300	1150	1150	1150	2150
Max electrical power	3700	1750	2600	1400	1700	1100	1050	1100	700	700	360	360	195	195	195	88
Full load	7.00	3.00	4.30	2.60	7.80	5.20	4.70	6.00	3.00	3.00	1.60	1.60	1.00	1.00	1.00	0.40

Starting current	20.00	11.00	17.50	11.00	10.00	9.00	8.80	16.00	7.50	7.50	4.50	4.50	3.00	3.00	3.00	1.00
Motor insulation	F	F	F	F	F	F	F	F	B	B	F	F	B	B	B	B
IP rating	IP54	IP54	IP54	IP54	IP54	IP54	IP54	IP44	IP44	IP44	IP44	IP44	IP44	IP44	IP44	IP44
Max operating temp																
Weight	192	124	120	120	138	120	86	72	65	64	40	32	25	24	24	23
Phase	Three Phase	Three Phase	Three Phase	Three Phase	Single Phase	Single Phase	Single Phase	Single Phase	Single Phase	Single Phase	Single Phase	Single Phase	Single Phase	Single Phase	Single Phase	Single Phase

