TECHNICAL DATA SHEET

Duco RoofFan 1800

Are you looking for the ideal system for collective ventilation in apartment blocks? The Duco RoofFan is the most energy-efficient system for high-rise buildings. Operating in conjunction with the Intelli Air Valve or iAV, this pressure-controlled roof exhaust fan is the first completely demand-controlled collective MEV system. Achieving a jump in the Residential Property Evaluation System (WWS in Dutch) Energy Index has never been so easy thanks to the Duco RoofFan and Intelli Air Valve.

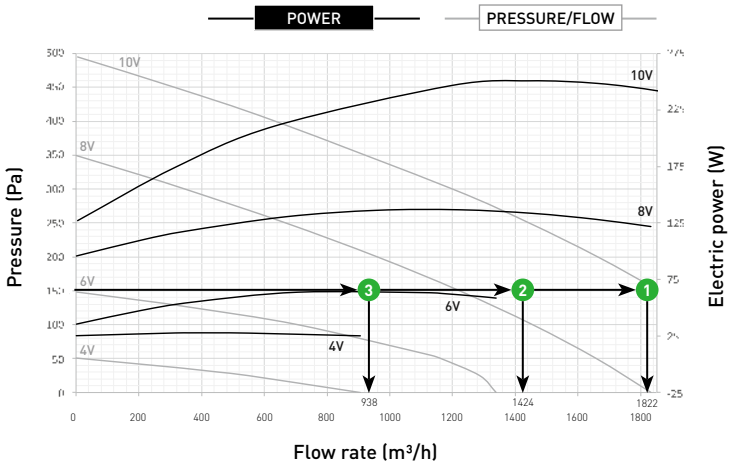
Physical characteristics

Article number:	0000-4614
Pitch size:	• 330 mm (Duco RoofFan / MX 110) • 380 mm (CAS 3.1) • 450 mm (MX 210)
Width x Height x Depth:	595 x 297 x 580 mm
Weight:	10,15 kg
Material:	plastic (ASA), aluminium, other
Colour:	grey (RAL 7040)

Miscellaneous characteristics

Operation:	Via control unit & operating switch (included)
Sensors:	Integrated pressure sensor
Control:	• Pressure control • Timed control
Communication:	Modbus possible
Fan:	EC fan with backward-curved blades

Pressure-Flow rate - Duco RoofFan 1800



Ventilation properties

Extraction capacity with or without iAV demand control:	• 1800 m³/h at 150 Pa • 1250 m³/h at 300 Pa
Minimum extraction capacity:	30 m³/h at 150 Pa

Electrical characteristics

Display:	Yes
Push buttons:	4
Power supply / Frequency	230 VAC - 50 Hz
Maximum electrical power:	245 W
IP class:	IP24

Optional accessories

Product	Item number
Intelli Air Valve	For 125 mm ^ ducts • Set iAV CO_2: 0000-4389 • Set iAV Humidity: 0000-4390 • Set iAV Toilet: 0000-4391 • Set iAV Sensorless: 0000-4392 For ∅ 160 mm ducts • Set iAV CO_2: 0000-4393 • Set iAV Humidity: 0000-4394 • Set iAV Sensorless: 0000-4395
Roof curb	0000-4611
Acoustic Roof Curb	0000-4612
Adaptor plate	0000-4613

Flow rate Qv m³/h	#	Pressure Pa	Voltage V	Absorbed power P W	Noise level LwA/LpA	
					Extraction dB	Supply (4m) dB
1822	1	150	7	245	77,0	62,5
1424	2	150	6	162	73,0	58,0
938	3	150	5	100	66,0	52,0

Octave band frequencies

1. Supply noise (inlet air)

Measure-ment #	Flow rate m³/h	Pressure Pa	LwA supply dB	Octave band frequencies Hz							
				63	125	250	500	1000	2000	4000	8000
4	2813	150	85	91,8	84,4	77,8	78,6	74,7	75,1	79,4	80,4
12	2599	149	83,5	91,2	83,2	78,5	76,8	73	73,5	78,7	77,3
21	2279	150	80,5	87,9	80,6	76,9	70,8	69,6	71	77	71
31	1904	148	77	79,7	77,9	75,9	67,2	67	68,2	73,1	63,6
39	1493	150	73	72,6	74,2	73,3	64	61,9	65,5	68	56,8
48	866	150	66	68,4	68,8	66,4	59,3	57,2	60,6	57,3	48,2

2. Exhaust noise (outlet air)

Measure-ment #	Flow rate m³/h	Pressure Pa	LwA supply dB	Octave band frequencies Hz							
				63	125	250	500	1000	2000	4000	8000
4	3050	147	92	73,6	76,2	80,2	85,1	86,6	84	84,1	85,4
15	2660	149	90	73	74,1	79,6	82,7	84,6	81,7	83,3	82,9
25	2301	151	87	74,3	71,9	79,1	79,1	81	78,6	81,7	77,3
36	1822	147	82,5	63,4	66,9	75,8	75,2	75,5	74,1	77,5	68
44	1424	149	78	58,3	63,5	71,4	71,8	70,8	71	72	60,9
53	938	150	72	54,6	58,7	68,2	67,7	65,6	66,4	62,5	53,2

Sectional drawings Duco RoofFan