



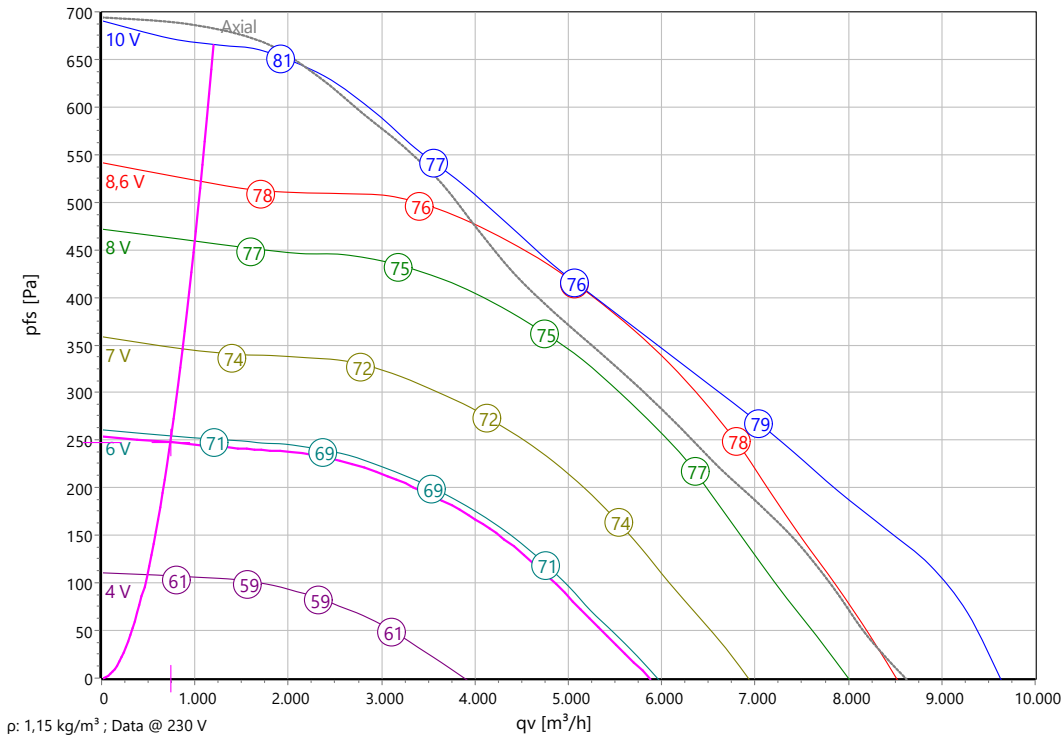
Type: **UNOR 80-500-G.5HF Gen3**

Open-loop control, 0-10 Volt

Part no.: F15-50020



Curve:



ErP-Data:

(EU) Nr. 1253/2014	(Lot6)
q _v	6227 m ³ /h
p _{fs}	490 Pa
η _{fs}	62,5 %
P _{ed}	1,36 kW
n	1425 r/min
N	61
v	1,87 m/s
η _{fs} Lot11	61,7 %

Operating Point:

q _v	735 m ³ /h
p _{fs}	248 Pa
p _{fd}	1 Pa
η _{ed,fs}	29 %
η _{ed,tot}	29 %
P _{ed}	0,178 kW
I	0,59 A
n	867 r/min
L _{WA A,OUT}	70 dB(A)
U _c	6 V
v	0,221 m/s
SFP	872 Ws/m ³
FEI	1,7
t _{R,OP}	60 °C

Intersections:

Curve	q _v [m ³ /h]	p _{fs} [Pa]	P _{ed} [kW]	I [A]	n _N [r/min]	L _{WA A,OUT} [dB(A)]
10 V	1204	666	0,79	2,14	1428	81
8,6 V	1066	522	0,54	1,48	1264	78
8 V	999,4	459	0,414	1,19	1183	77
7 V	868	346	0,28	0,82	1029	74
6 V	745	255	0,183	0,59	880	71
4 V	487	109	0,057	0,26	575	61

Nominal Data:

U [V]	f [Hz]	Data @ [V]	P _{ed} [kW]	I _N [A]	n _N [r/min]	t _R [°C]	k ₁₀ [m ² /h]	Eff.-Rating	IP	m [kg]
3~200-240	50/60	230	1	2,7	1260	-25 .. +45	245	IE5	IP 54	76

Sound Data:

Frequency	Σ	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz	Distances	1 m	4 m
L _{wA(A,in)} [dB(A)]	65	-	41	60	61	56	55	51	L _{pA(A,in)} [dB(A)]	58	47
L _{wA(A,out)} [dB(A)]	70	-	56	64	65	64	60	55	L _{pA(A,out)} [dB(A)]	63	52
L _{wA(D,cas)} [dB(A)]	52	-	48	49	41	31	26	20	L _{pA(D,cas)} [dB(A)]	45	34

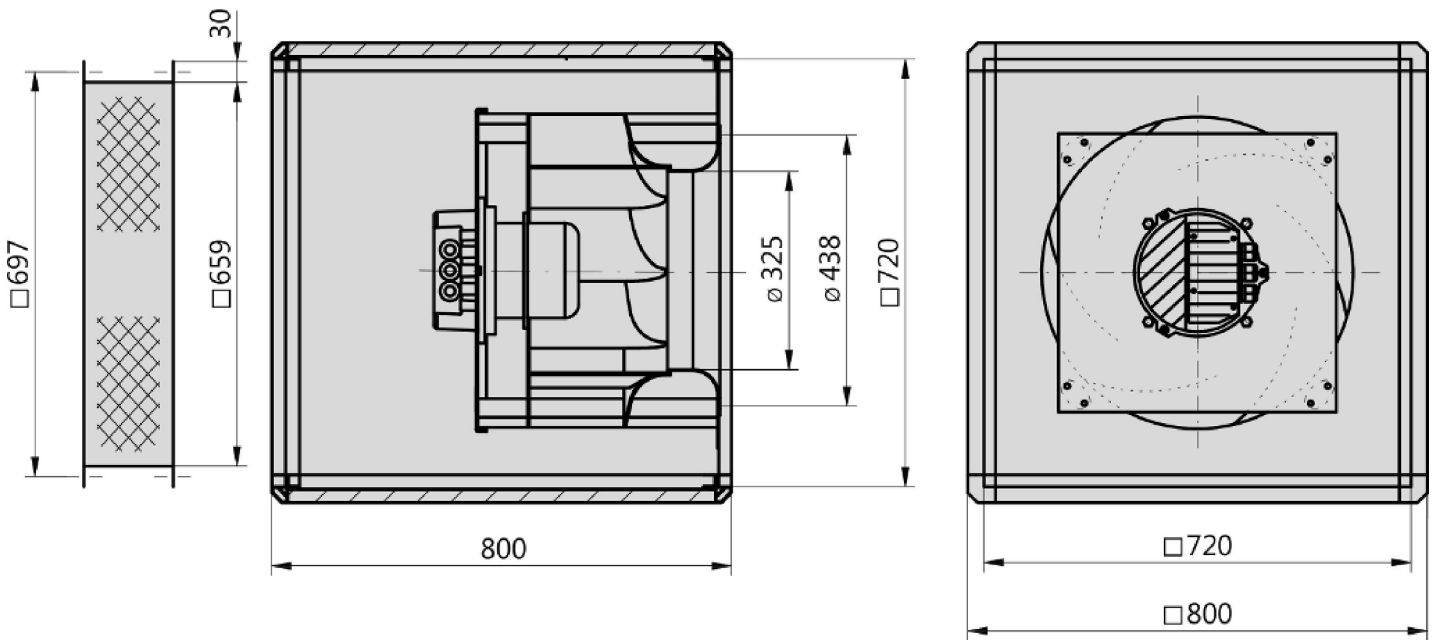
performance curve at radial air flow



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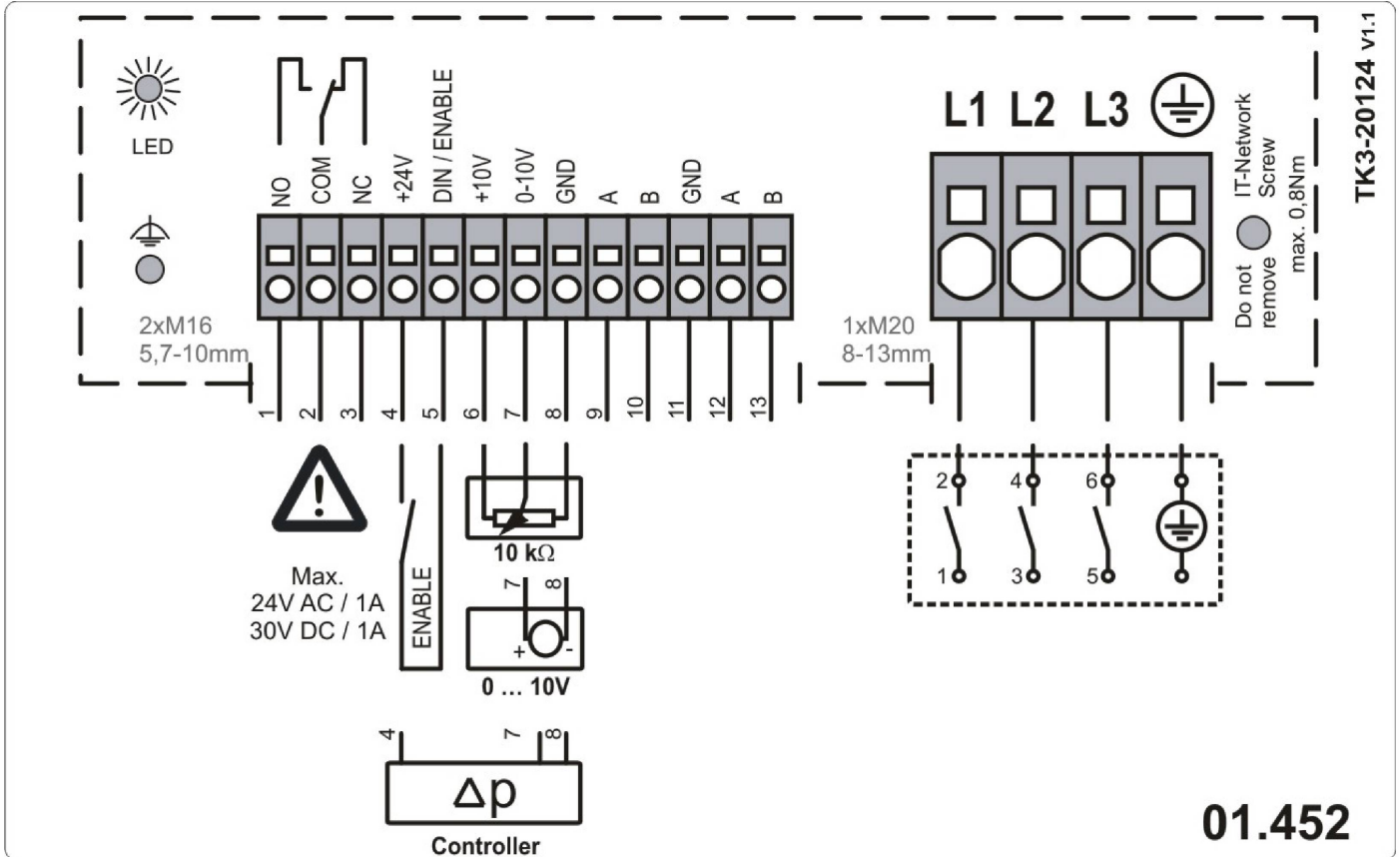




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Unobox

Boxfan with flexible outlet

The housing supporting frames are double chamber aluminium profiles with corners made of plastic and double skinned galvanized steel panels insulated with non-inflammable, noise and temperature insulating fiberglass mats. One side of the casing is open as standard. Wall thickness 20mm, $K=1,25 \text{ W/m}^2\text{K}$. As standard, the casing is open opposite to the inlet side. The removable side panels ensure highest possible flexibility of the air flow direction at the installation site. Impeller of the E-series (Revolution) made of black, UV-stabilized and long glass fibre reinforced Polypropylene (PP) with 7 backward curved, profiled blades and narrow efficiency optimized circumferential diffusor. Sound and weight optimized. Corrosion resistant and compact design. Air Flow orientated behaviour. Energy saving EC external-rotor motor of the 3rd generation. Exceeds in accordance with IEC 60034 -30-2 minimum requirements for IE5 (Ultra Premium Efficiency). Maintenance free ball bearings, closed on both sides with long-term lubrication. Magnets without rare earth elements. Motor made of die casted aluminum. Protection Class IP54 and insulation class F. Electronic with integrated terminal box and environmental resistant cable glands (2x M16 and 1x M20). Status LED integrated. 100% speed controllable with integrated Motor Protection and Soft Start. ModBus RTU Interface integrated. Busconfiguration possible on site by customer. Potential-free Alarm Contact and integrated 24V Supply for accessories. Applicable in all common energy grids and IT-Network. Low noise commutation. Motorized Impeller statically and dynamically balanced according to DIN ISO 21940 -11 at least with quality level G6.3. Air volume control is possible over an 0 -10V Signal (accessory).

Fan complies with the guidelines required (Machinery -, EMC- and Low Voltage Directive) to comply with installation and conformity declaration as well as CE marking.

Operating Point Data:

Airflow
735 m³/h
ext. Pressure
248 Pa
Input power
0,178 kW
Current
0,59 A
Speed
867 r/min
Sound power level
70 Lw(A)
Medium temperature
60 °C

Nominal Data:

Voltage
3~200-240 V
Frequency
50/60 Hz
Input power
1 kW
Current
2,7 A
Speed
1260 r/min
Medium temperature

45 °C
Protection Mode
IP 54
Efficiency Class
IE5
K-Factor
245
Weight
76 kg
Dimensions
800 mm / 800 mm / 800 mm

Contact:

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Elandlaan 8
NL - 3734 CP Den Dolder
<http://www.rosenberg.nl>

Type:

UNOR 80-500-G.5HF Gen3

Article-No.:

F15-50020