



VEX280-1

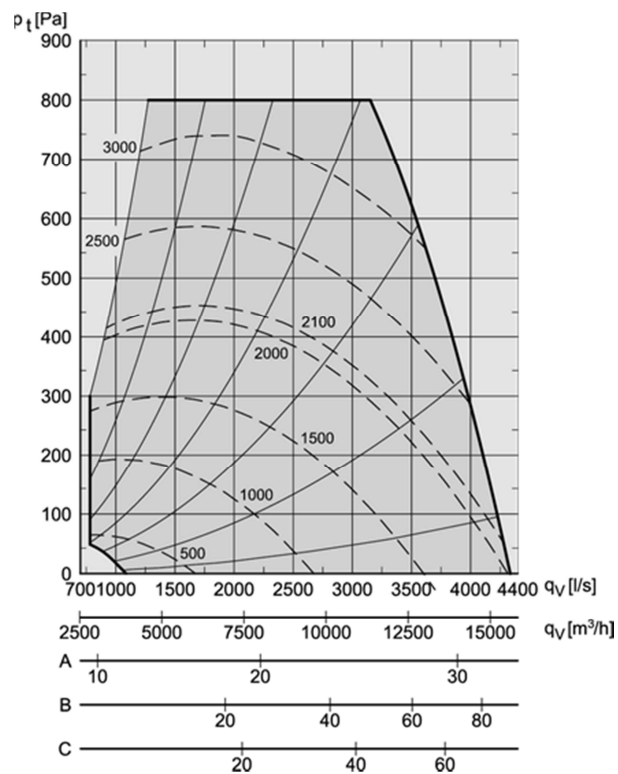
1. AIR HANDLING UNIT DATA

Air handling unit data	
Min. airflow	1730 m ³ /h
Max. airflow	14800 m ³ /h
Power consumption	11,3 kW
Electrical Supply	3 x 400 V + N + PE 50 Hz
Max. phase current	28,3 A
Weight of operational air handling unit	1070 kg
Weight of air handling unit for transport	Fan sections: 2 x 236 kg, Rotor section: 221 kg
Motor data (per unit):	
Voltage (delta/star)	3 x 230 V / 400V
Current (delta/star)	3 x 10,6 A / 6,1 A
Power supplied	3,0 kW
CEMEP-class	EFF1
Rotor pinion - stepper motor:	
Voltage	230 V
Phase current	0,2 A
Power consumption	45 W
Overcurrent protection	Built in
Control (built in rotation monitor)	Infinitely variable from 0 to 10 rpm on the rotor

Fan data	
Max. total operating efficiency (A-D)	59.0 %
ECO measurement layout (A-D)	A
Requirement for operating efficiency	62N(2015)
ECO operating efficiency at optimum point of operation	65.1N

Motor data (optimal point of operation)	
EC-motor	With motor controller
Power consumption	4.55 kW
Airflow	6583 m ³ /h
Total pressure	1467 Pa
RPM at optimal point of operation	2854

2. CAPACITY CURVE WITH COMPACT FILTER



— Capacity curve with M5 filters

- - - SFP-curve

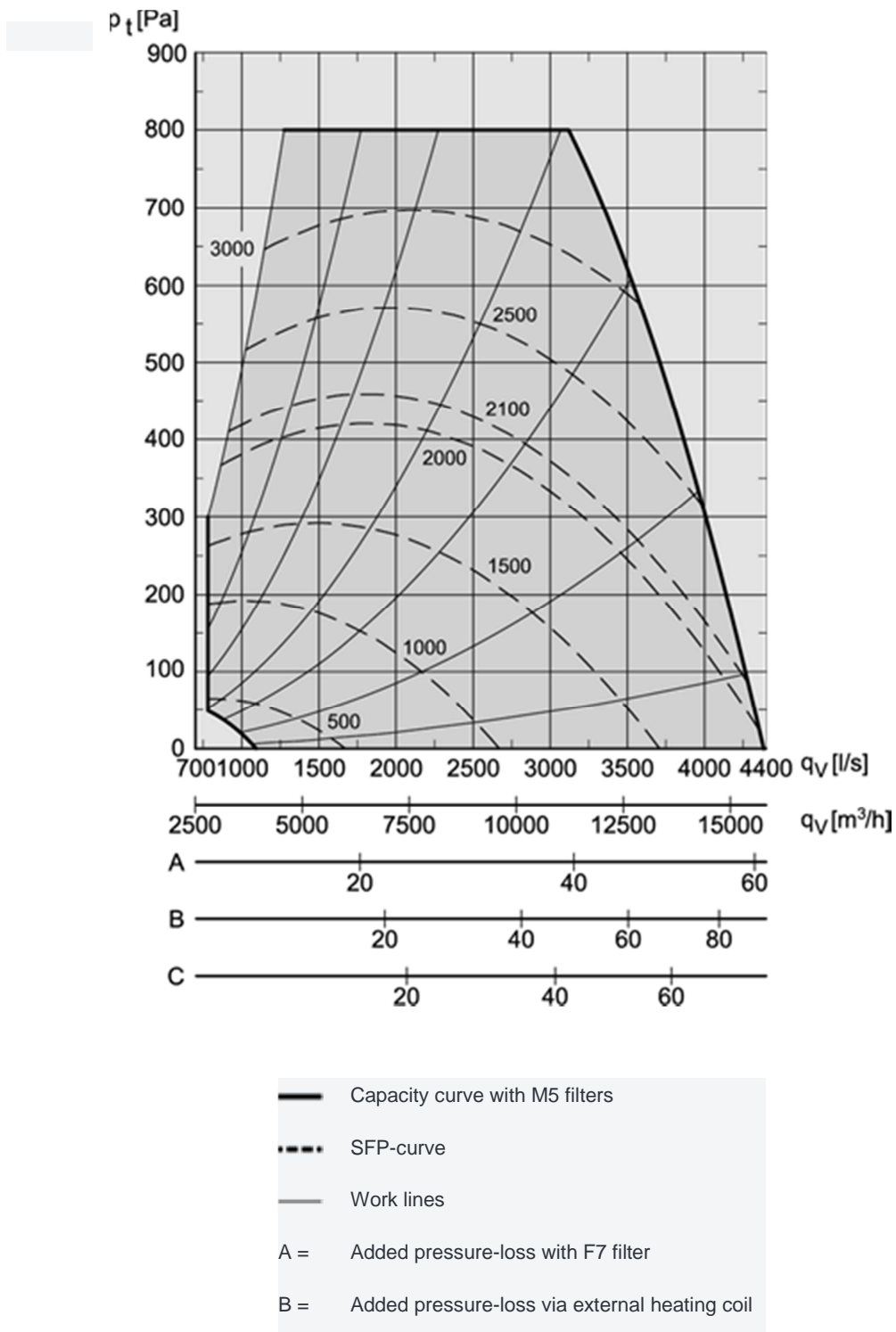
— Work lines

A = Added pressure-loss with F7 filter

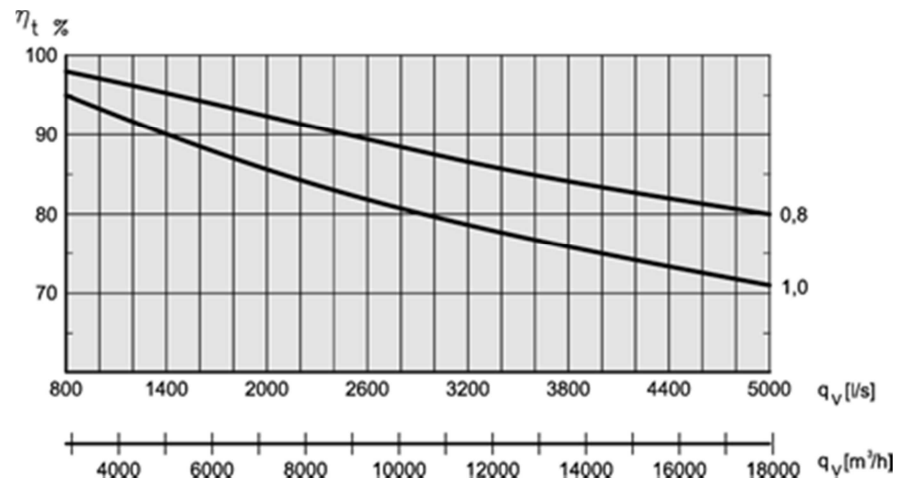
B = Added pressure-loss via external heating coil

3. CAPACITY CURVE WITH BAG FILTER

VEX280-1-FC with integrated control

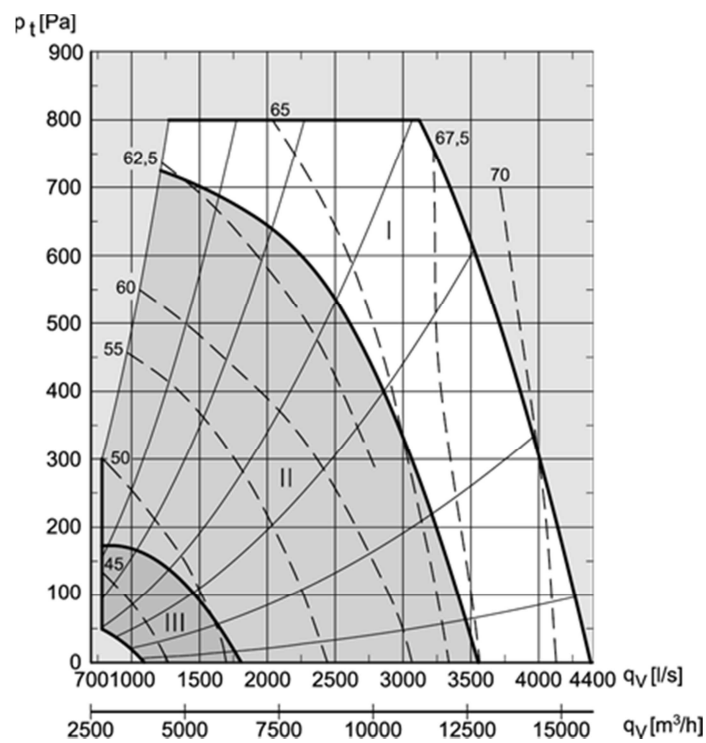


4. TEMPERATURE EFFICIENCY

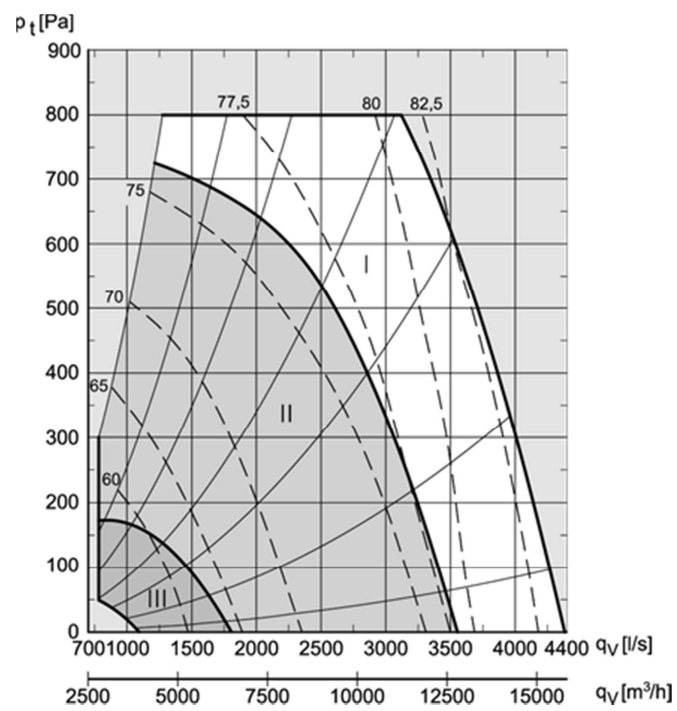


5. NOISE LEVEL DATA

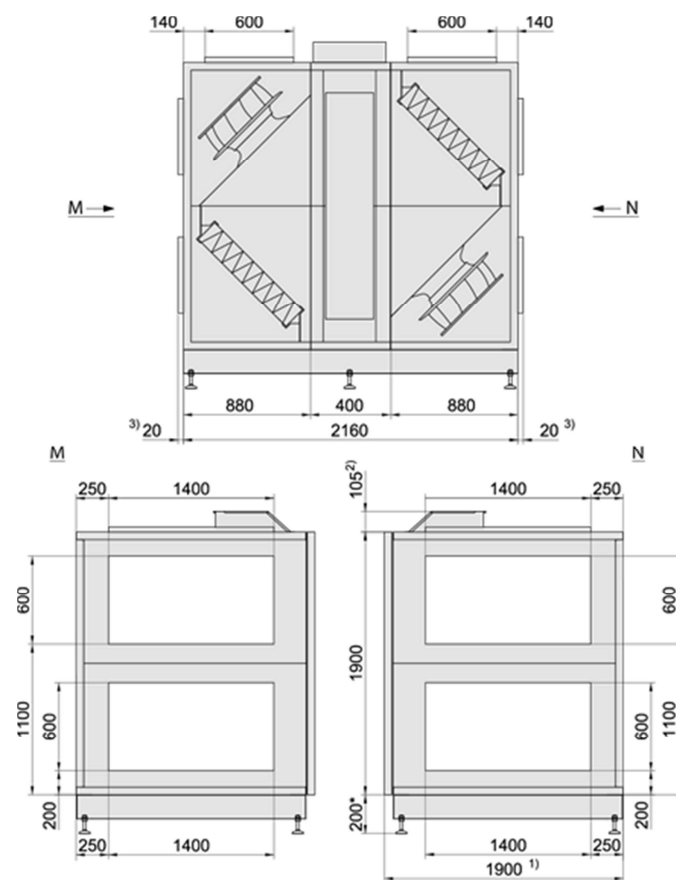
- Induction side

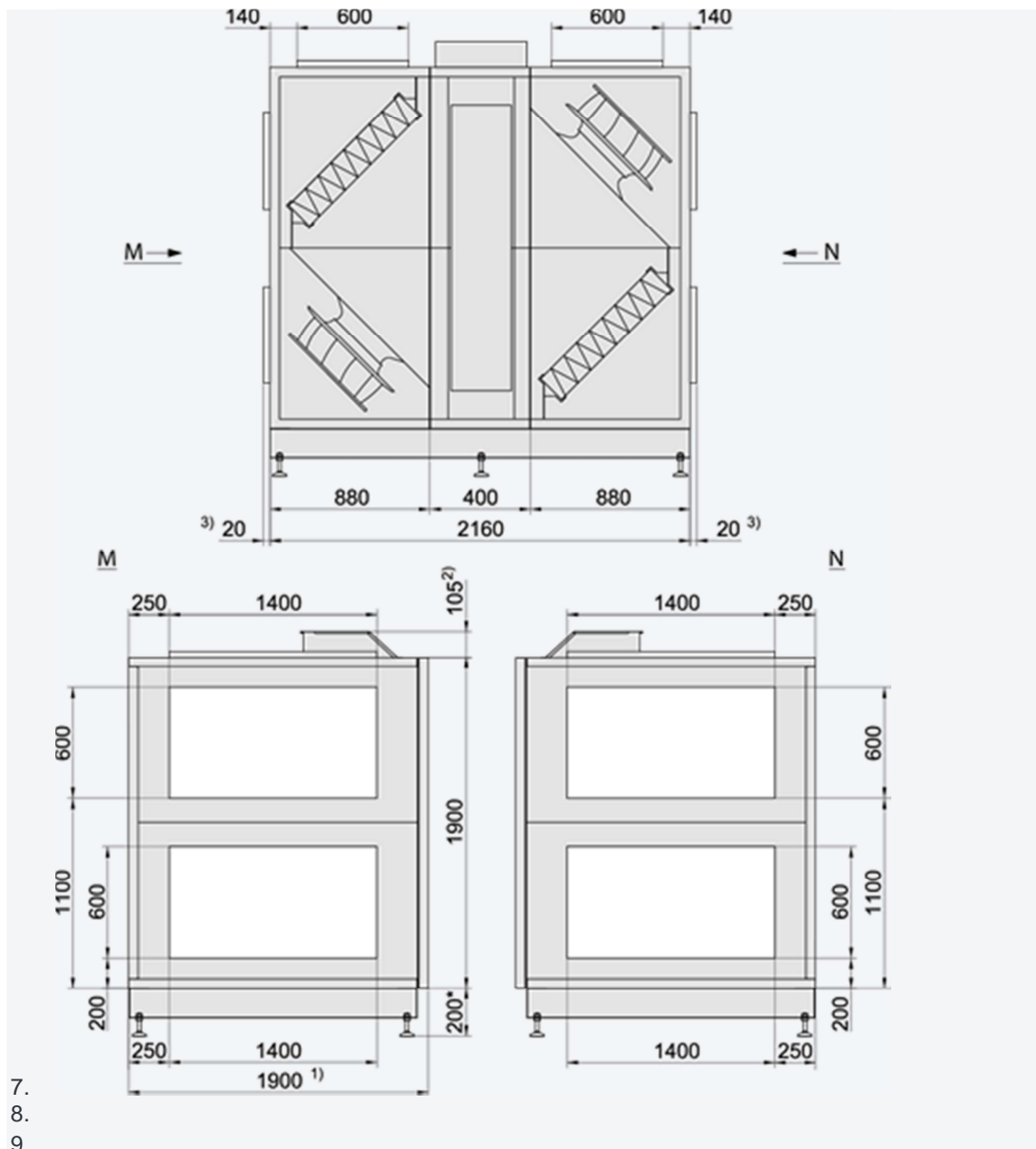


- Pressure side



6. DIMENSION SKETCHES





7. 1.1 Extract air 1.2 Exhaust air 2.1 Outdoor air 2.2 Supply air

10. 1) Allow a min. of 1000 mm service distance in front of the unit

2) Allow a min. of 200 mm free height for service.

*The base height is factory-adjusted to 200 mm. The height can be adjusted between 150–240 mm.