

PEGASUS

WALL DIFFUSER WITH VAV FUNCTION

- Unique damper function
- Large working range
- Can be used with internal linear regulator or external rotary regulator..
- Belimo MP-Bus
- MOD-Bus
- BACnet
- Belimo KNX

APPLICATION

Pegasus is a wall diffuser unit with VAV function. It is used as a volume flow controller unit in demand controlled ventilation systems. Pegasus has very good induction, making it ideal for variable air flow rates.

DESIGN

Pegasus is a complete measuring and control unit for the demand control of air flow rates in ventilation systems. The measuring station measures the differential pressure using measuring rods integrated

into the unit. Pegasus is equipped with VAV regulators from Belimo or Siemens. Pegasus MI (motor inside) is supplied with a linear regulator from Belimo. Access to the engine is via the valve front. Pegasus

MU (external motor) is supplied with rotating motor from Belimo or Siemens. When choosing the Pegasus MU, other engine variants can delivered on request. The regulators specifications can be found in table

1. Complete technical documentation can be found on our website; www.trox.no. Pegasus has a removable front panel with a choice

of LØV or Opus design. LØV has two different designs, long (L) or short

(K) throw length. If the Opus design with turnable plastic nozzles is selected, (V) is the designation for the variable throw length.

DESCRIPTION



MATERIALS AND FINISH

Pegasus is made of galvanised steel. The measuring cross is made of aluminium, hoses and nipples are made of plastic. The damper is fitted with a polyester cloth. The connection collar has an EPDM rubber gasket.

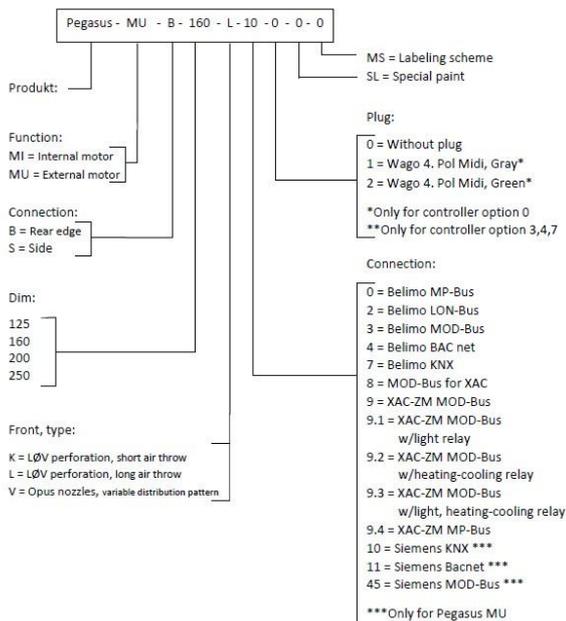
MOUNTING



Pegasus is installed as a rear diffuser in the rear of the unit using a suspension bracket and a threaded rod or strap, see figures 8 and 9.

The plenum box is installed in the cut-out and screwed to the studding. The adjustable installation frame is then pushed in and screwed to the plenum box. Finally, the front is pressed into position.

TECHNICAL INFORMATION



Example:
 Pegasus-MU-B-L-160-10-0-0-0

Explanation:
 Pegasus with external motor and rear edge connection, dimension duct Ø160, LØV front with long air throw, with Siemens KNX, without special paint, without plug and without labelling scheme.

QUICK SELECTION PEGASUS LÖV-B-K/L

Pegasus LÖV-B-K/L		m ³ /h (open)		
Dim.	25 dB(A)	30 dB(A)	35 dB(A)	
125	158	194	241	
160	277	335	403	
200	331	396	475	
250	584	706	832	

QUICK SELECTION PEGASUS LÖV-B-K/L

Pegasus LÖV-B-K/L		m ³ /h (75 Pa)		
Dim.	25 dB(A)	30 dB(A)	35 dB(A)	
125	169	202	245	
160	248	324	378	
200	331	403	475	
250	497	648	782	

QUICK SELECTION PEGASUS LÖV-S-K/L

Pegasus LÖV-S-K/L		m ³ /h (open)		
Dim.	25 dB(A)	30 dB(A)	35 dB(A)	
125	169	205	252	
160	274	335	407	
200	342	410	490	
250	518	630	763	

QUICK SELECTION PEGASUS LÖV-S-K/L

Pegasus LÖV-S-K/L		m ³ /h (75 Pa)		
Dim.	25 dB(A)	30 dB(A)	35 dB(A)	
125	166	209	234	
160	238	320	396	
200	288	385	486	
250	439	600	738	

QUICK SELECTION PEGASUS OPUS-B

Pegasus Opus-B		m ³ /h (open)		
Dim.	25 dB(A)	30 dB(A)	35 dB(A)	
125	140	173	212	
160	234	284	342	
200	266	335	425	
250	457	605	731	

QUICK SELECTION PEGASUS OPUS-B

Pegasus Opus-B		m ³ /h (75 Pa)		
Dim.	25 dB(A)	30 dB(A)	35 dB(A)	
125	140	169	212	
160	212	270	338	
200	282	349	428	
250	371	580	724	

QUICK SELECTION PEGASUS OPUS-S

Pegasus Opus-S		m ³ /h (open)		
Dim.	25 dB(A)	30 dB(A)	35 dB(A)	
125	137	173	216	
160	230	281	342	
200	281	349	432	
250	536	626	727	

QUICK SELECTION PEGASUS OPUS-S

Pegasus Opus-S		m ³ /h (75 Pa)		
Dim.	25 dB(A)	30 dB(A)	35 dB(A)	
125	133	173	212	
160	202	270	335	
200	277	353	432	
250	396	565	716	

Table 2. Quick selection table Pegasus

REGULATION RANGE, PEGASUS

Pegasus		m ³ /h	
Dim.	Minimum	Maximum	
125	26	265	
160	43	434	
200	70	700	
250	106	1060	

Table 3. Adjustment range for VAV, air flow rate in m³/h.
 See calculation diagram for sound power level and pressure drop

Pegasus has a built-in VAV controller for demand control of the airflow. The damper solution can throttle high pressures at high airflows and maintain low noise levels and can therefore reduce the need for silencers in the duct system. Pegasus can be delivered with several different bus options to the SD system.