Transport Blower

QCX® PTB130/140/175 TRANSPORT BLOWER

The PTB Transport Blower has an air cooled single- or double-stage side channel blower that generates the air flow needed for pneumatic tube transport systems. It is best suited to the transportation of carrier.

By using electricity, a side channel blower, and a reverse valve, the PTB Transport Blower is considerably more efficient than alternative options. Compared to stop-and-start models for changing airflow directions, reverse valves overcome the need to change the turning direction of the electric motor. This reduces switching times to either blow or suck carriers to or from sampling points.

The PTB Transport Blower is also much cheaper to run compared to compressed air options.

ADVANTAGES

- **Rugged**: the PTB Transport Blower is built strong so you won't be held back by common transport problems, such as damage by dirt particles or sucking the wrong media.
- **Efficient**: save on cost and time with this high-performing transport blower that runs on electricity rather than expensive alternatives, and is cleverly designed to enable fast performance and fast switches in airflow direction.
- **Long-lasting**: reliable mechanical design means that with regular maintenance, the PTB Transport Blower will continue to perform at its best over time.

FOR A FAST PERFORMANCE AND FAST SWITCHING

How it works

The PTB Transport Blower is available in three different sizes to fit different transport tube length and operation scenarios.

While the smallest blower is electrical reversible, the medium and large units are connected to an air reverse-valve, which allows you to switch from positive to negative pressure under load without having to stop the motor. The pneumatical air-reverse valve has a special design with a very low resistance.

Possible configuration

4 kW transport blower w/ bi-directional motor (PTB130)
The smallest blower is recommended to use for distances up to 400 meters maximally. Reversing is performed by electrical motor. It can also operate at 4.8 kW at 60 Hz.

4 kW transport blower w/ air reversing valve (PTB140)
The middle-size blower is recommended to use for distances up to 750 meters maximally. Reversing from positive to negative pressure is performed by an air reverse-valve under load, without stopping the motor. It can also operate at 4.8 kW @ 60 Hz.

7.5 kW transport blower w/ air reversing valve (PTB175)
The largest blower is recommended to use for distances up to 1,500 meters maximally. Reversing from positive to negative pressure is performed by an air reverse-valve under load without stopping the motor. It can also operate at 9 kW at 60 Hz.

Specification

Blower type	PTB130	PTB140	PTB175
Range of the pneumatic piping	Up to 400 m	Up to 750 m	Up to 1,500 m
Volume flow rate	390 m^3/h (50 Hz) 470 m^3/h (60 Hz)	260 m^3/h (50 Hz) 305 m^3/h (60 Hz)	370 m^3/h (50 Hz) 440 m^3/h (60 Hz)
Pressure difference (negative/postive)	-315 / 290 mbar (50 Hz) -290 / 270 mbar (60 Hz)	-410 / 370 mbar (50 Hz) -400 / 340 mbar (60 Hz)	-420 / 500 mbar (50 Hz) -420 / 470 mbar (60 Hz)
Power supply	3 x 380 - 500 V; 50 /60 Hz; 4.0 / 4.8 kW	3 x 380 - 500 V; 50 /60 Hz; 4.0 / 4.8 kW	3 x 380 - 500 V; 50 /60 Hz; 7.5 / 9.0 kW
Compressed air supply	-	0.6 – 1.0 MPa (Quality 1.4.1 as per ISO 8573-1)	
Operarating conditions	Temperature: 15°C to 35°C, Humidity: 30 – 75 %		
Weight	Approx. 60 kg	Approx. 90 kg	Approx. 108 kg
Dimensions (W x D x H)	750 x 750 x 1,070 mm	890 x 750 x 1,370 mm	890 x 750 x 1,370 mm

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