

Data Sheet (EN)

Translation of the german original

WELCH
by Gardner Denver

Designation:



Vacuum Pump System

Model
MXPC 603 T

Order number
117057

Technical Data:

Parameter	Data	Unit
Pumping speed 50 Hz DIN 28432 at rated speed 1500 min ⁻¹	4,0	m ³ / h
Ultimate pressure at rated speed 1500 min ⁻¹	< 1,5	mbar
Max. Inlet - / Outlet pressure	1,1	bar
Reference surface sound pressure level DIN EN ISO 2151	< = 44	dB (A)
Intake- / Exhaust connection	Hose nozzle DN 8/10 for hose inside diameter 8-10mm	-
Ambient temperature	+ 10 to + 40	°C
Max. operating gas temperature	+ 40	
Voltage, Frequency	230, 50/60	V, Hz
Motor power	360	W
Operating mode	S1	-
Type of protection (Motor) DIN EN 60529	IP 40	-
Motor / Class of insulation DIN EN 60034-1	F (160°C)	-
Dimensions (W/D/H)	250 / 350 / 500	mm
Weight	25.0	kg

Application:

The Vacuum Pump System MXPC Series is especially suitable for applications for distillation and evaporation of solvents. It finds its use in physical and chemical laboratories or industry, specifically for pumping and compressing neutral and aggressive gases and vapors.

Design:

The Vacuum Pump System MXPC is used for vacuum generation in local networks.
It consists of a dry-running, two-stage chemical resistant diaphragm pump with gas ballast valve, the suction side condensate separator (round bottom flask 500 ml) for collecting liquids and particles. An emission condenser is provided on the pressure side for solvent recovery, as an isolated intensive condenser with connections for cooling water supply and return, as well as a 500 ml round piston and safety valve.

Materials of the medium-affecting parts:

Seals	EPDM
Screw fittings / Connection elements	PVDF
Valves	PEEK
Form diaphragms	Elastomer + PTFE layer
Vacuum hoses	PTFE
Pump heads	PTFE with carbon-fibre reinforcing
Round-bottomed flask / Intensive cooler	Glass with plastic coating

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Accessories:	Order number:
Digital Vacuum Controller VCpro 601 benchtop Measurement-/ control- / regulation device for vacuum processes, which with adjustable parameters, is used for control of an absolute pressure between normal pressure and 1 mbar for vacuum applications in the industrial sector and laboratories. With integrated pressure sensor, airing -, vacuum control- and check valve	600100
Upgrade Kit 1 - Vacuum dial gauge with swifle adapter G1/4" for MXPC Bourdon Vacuum gauge. Measuring range 1000 – 1mbar. Equipped with a swifle adapter which allows a 360° rotation of the vacuum gauge	600203
Upgrade Kit 2 - Vacuum digital gauge with swifle adapter G1/4" for MXPC Digital Vacuum gauge Measuring range 1000 – 1mbar. Equipped with a swifle adapter which allows the manometer to be optimally positioned. The digital manometer are budget-friendly and provide high accuracy with a 4-digit LCD display. Power is supplied by a coin cell battery.	600204
Rotary Evaporator connection kit, includes fittings and hoses for vacuum & cooling water	112575
Vacuum Oven connection kit, DN 16+25 KF, with DN 8 red rubber vacuum hose, flange/hose nozzle adapters	404005
Mini-Vacuum Network – run upto 3 application simultaneously. Extend your vacuum pump to support upto three applications simultaneously. The manual flow control valves allow gentle vacuum control for each application individually. Each port has a non-return valve included to minimize cross-contamination. An MPC or MXPC or existing vacuum pump can be easily connected with PTFE (18/8x5 mm) or rubber vacuum hose (ID DN8). The Mini-Network be mounted directly to a wall or on a stainless steel lab frame (adapter rods are included in the scope of delivery). Space saving assembly and plug and play solution. E.g run a 3 benchtop rotavaps with 1 Vacuum source – energy saving and environmentally friendly.	700553
Red Vacuum Rubber hose, 18 / 8 x 5 mm Natural rubber tubing with extra-heavy wall especially recommended for vacuum work	828310-4
PVC Fabric Cool Water Tube, ID = 8 mm x Wall Thickness = 3 Long-lasting PVC hose for easy connection of cooling water to an exhaust emission condenser of a vacuum pump	828346
Vacuum hose PTFE, 10 / 8 x 1 mm PTFE tubing - ideal for use as a connection between a vacuum system and a vacuum network for a safe and leak-tight connection	828332
Inlet adapter, DN 16 KF - 1/4", PVDF Screw in adapter to upgrade an MXPC pump to fit an DN16KF hose or other KF components.	710116-01

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