



TCP Series

The ANVER TCP Series Electric Vacuum Pumps are ideal alternatives to rotary vane vacuum pumps. This revolutionary product is remarkably easy to use... just plug it in and let it run. Take a close look at the TCP's features and you'll agree that vacuum technology has taken a giant leap forward. With an operating temperature that stays below 110° F (43° C), the patented TCP cools exhausted air below the intake temperature and dries it at the same time. Cool, clean air is the only thing discharged. Condensed water returns to the internal water system, so there is no need for an external water supply. An optional Overflow/Make-Up Valve automatically adds or drains water in order to keep the appropriate level at all times.

Principle of Operation

Heat is removed from the closed loop water circuit by an air-cooled heat exchanger. A small amount of water from the closed loop water circuit is injected at the inlet of the TCP vacuum pump. Under vacuum, this stream is vaporized and, as a result, the inlet air to the pump is cooled. Utilizing a shell and tube heat exchanger, the cooled inlet air in turn cools the exhaust air stream. Water vapor in the exhaust air is condensed and returned to the separator tank.

Features:

- Oil free
- Maintenance free
- Self-contained internal water circuit
- Compact, quiet, cool running
- Capacity of 20 to 180 cfm; generates 28.5 inches of Hg Vacuum
- Insensitive to dust and water vapor
- Discharges totally clean air

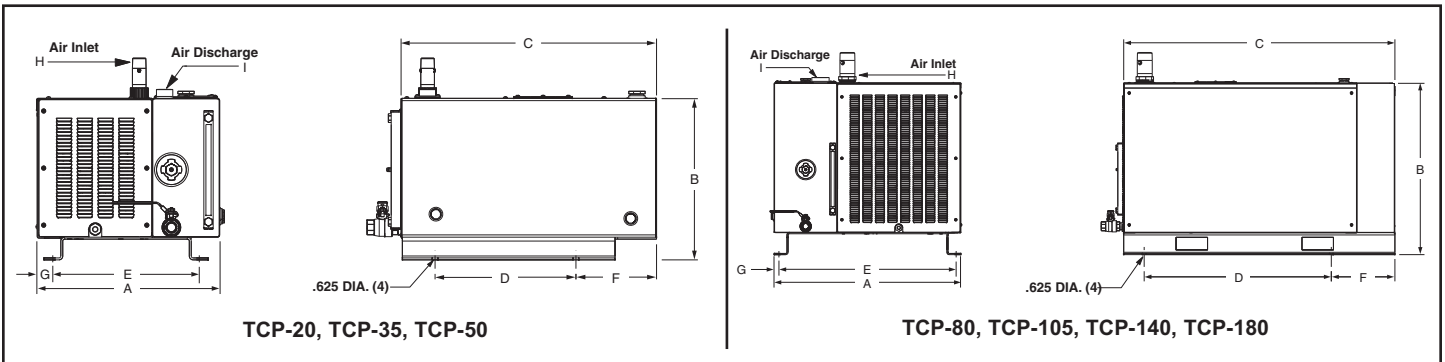
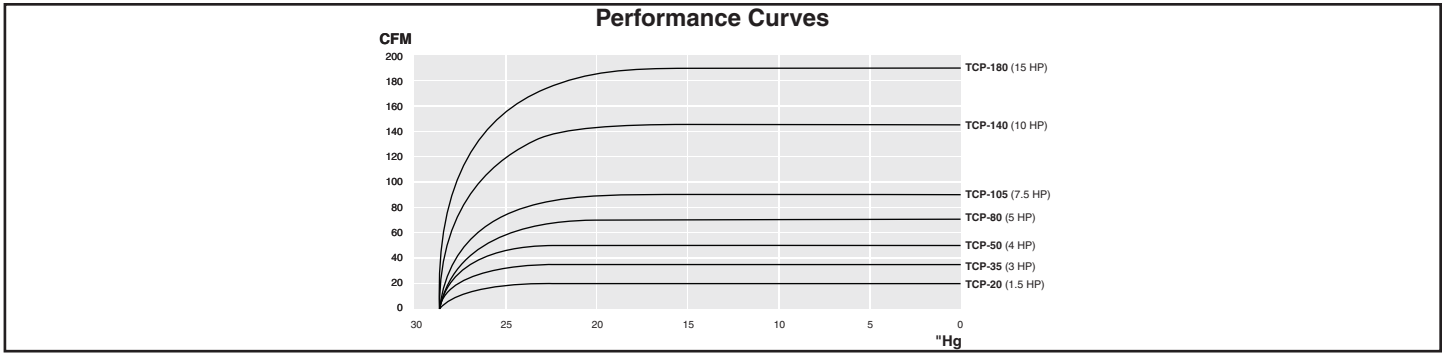
Typical Application

- Ground Water Extraction
- Food and Pharmaceutical Packaging
- Thermoforming
- Rubber Molding
- Medical and Anesthesia Evacuation
- Pick and Place
- Vacuum Routing
- Pneumatic Vacuum Conveying
- Central Vacuum Systems

Item Number	HP (Kw)	Max. Vacuum in. Hg (mm Hg)	Max. Flow SCFM (l/min.)	3 Phase Voltage	Amps	Sound dB	Weight lb (kg)
TCP-20	1.4 (1.0)	28.5 (724)	20 (566)	208-230/460	4.9 / 2.8	66	105 (48)
TCP-35	2.2 (1.6)	28.5 (724)	40 (1133)	208-230/460	8.8 / 4.4	70	150 (68)
TCP-50	4.7 (3.5)	28.5 (724)	50 (1416)	208-230/460	12.9 / 5.4	74	190 (86)
TCP-80	6.8 (5.1)	28.5 (724)	80 (2266)	208-230/460	18 / 6.6	74	360 (163)
TCP-105	7.5 (5.6)	28.5 (724)	105 (2973)	208-230/460	25.5 / 11.5	71	380 (172)
TCP-140	10 (7.5)	28.5 (724)	140 (3964)	208-230/460	30 / 14.5	73	470 (213)
TCP-180	15 (11.2)	28.5 (724)	180 (5047)	208-230/460	49 / 28	76	580 (263)

Vacuum Pumps and Generators

Water-Cooled Electric Vacuum Pumps



Item Number	A in. (mm)	B in. (mm)	C in. (mm)	D in. (mm)	E in. (mm)	F in. (mm)	G in. (mm)	H in. (mm)	I in. (mm)
TCP-20	17.6 (447)	15.5 (394)	24.6 (625)	13.6 (345)	14.1 (358)	7.8 (198)	1.5 (38)	1"	1"
TCP-35	21 (533)	18.8 (478)	30 (762)	17.8 (452)	19.5 (495)	9.0 (229)	0.8 (20)	1.5"	1.5"
TCP-50	21 (533)	18.8 (478)	30 (762)	17.8 (452)	19.5 (495)	9.0 (229)	0.8 (20)	1.5"	1.5"
TCP-80	29.7 (754)	27.2 (691)	43.1 (1095)	29.7 (754)	28.2 (716)	10.1 (257)	0.8 (20)	2"	2"
TCP-105	29.7 (754)	27.2 (691)	43.1 (1095)	29.7 (754)	28.2 (716)	10.1 (257)	0.8 (20)	2"	2"
TCP-140	29.7 (754)	27.2 (691)	43.1 (1095)	29.7 (754)	28.2 (716)	10.1 (257)	0.8 (20)	2"	2"
TCP-180	29.7 (754)	27.2 (691)	43.1 (1095)	29.7 (754)	28.2 (716)	10.1 (257)	0.8 (20)	2"	2"

Optional Accessories for TCP Series Vacuum Pumps	
TCP-OV	Overflow / Make-Up Valve for TCP Series Pumps
TCP-MV1	Makeup Valve for TCP-20 and TCP-35 Pumps
TCP-MV2	Makeup Valve for TCP-50 through TCP-180 Pumps

► This spec sheet was adapted for print from our website. Additional information and photos are available at www.anver.com. 8062901