

JOB: _____

REPRESENTATIVE: _____

ENGINEER: _____

CONTRACTOR: _____

PRODUCT DATA

ITEM NO. _____ MODEL NO. _____

MODE _____ MODE SETTING _____

GPM _____ HEAD/FT _____

NSF 61 & 372 CERTIFIED YES NO VOLTAGE _____

ENERGY RATING 135 CIRCULATOR ENERGY INDEX 0.45

APPLICATIONS

DUCTILE IRON MODEL

Closed loop, pressurized Heating and Chilled Water HVAC Systems

STAINLESS STEEL MODEL

Potable water systems (DHW recirculation, pressure boosting)

STANDARDS, PROTECTION & FLANGE TYPE

Insulation Class H

Enclosure: Class 2, IP44

Integrated Motor Protection (electronically protected)

Continuous Duty

UL778, 1004-1, 508C

CAN/CSA22.2 #108, #100, #107.1

EMC (89/366EEC): EN 61000

LDV (73/23/EC): EN 60335-1, EN 60335-2-51

Machine Safety (98/37/EC): EN ISO 12100

Standard 125# ANSI Flanges

Stainless Steel Version: NSF/ANSI/CAN 61 & 372 Commercial Hot



Stainless Steel Model

SPECIFICATIONS

MAX SHUT-OFF HEAD	39 feet
MAX. FLOW	166 USGPM
MAX. OPERATING PRESSURE	175 PSI (12 bar)
WATER TEMPERATURE RANGE	14 to 230°F (-10 to 110°C)
AMBIENT TEMPERATURE RANGE	32 to 104°F (0 to 40°C)
AMBIENT HUMIDITY	Less than 95% RH

ELECTRICAL SPECIFICATIONS

VOLTAGE (ALL SINGLE PHASE)	110-240
POWER CONSUMPTION (HP)	0.8 HP
POWER CONSUMPTION (W)	25 - 560 W
CURRENT LIMIT	6
MAX AMPS	110V - 4.8, 240V - 2.4
24 VOLT SUPPLY OUTLET	Max current up to 100mA, Output Voltage +/- 20% of 24 Volts, Output Ripple under 1 Volt
RELAY OUTLET	230 Vac, 3A, AC1 Potential Free Changeover Contact
NUMBER OF RELAY OUTPUTS	2
ANALOG INPUTS	Max Input Voltage 32Vdc, 2 Inputs, 1 output
ETHERNET	RJ-45 Connector, Http server and FTP Client server

MATERIALS OF CONSTRUCTION

CASING		IMPELLER	SHAFT	BEARINGS
HVAC MODEL	DHW MODEL			
Cast Iron, Cataphoresis Coated	304 Stainless Steel	PES GF-30	ANSI 420	Carbon SleeveType

MINIMUM STATIC INLET PRESSURE

at pump suction port (PSIA / bar) to avoid cavitation at fluid temperatures

FLUID TEMPERATURES	PSIA / bar
112°F (50°C)	7.3 / 0.5
176°F (80°C)	11.6 / 0.8
230°F (110°C)	20.3 / 1.4

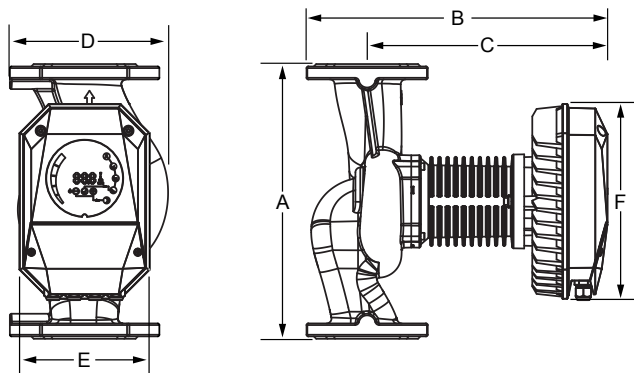
OPERATING MODES

- TacoAdapt®
- Proportional Pressure
- Constant Pressure
- Constant Speed
- Setback
- BACnet
- ModBus
- 0-10Vdc
- PWM
- Twin Pump Mode

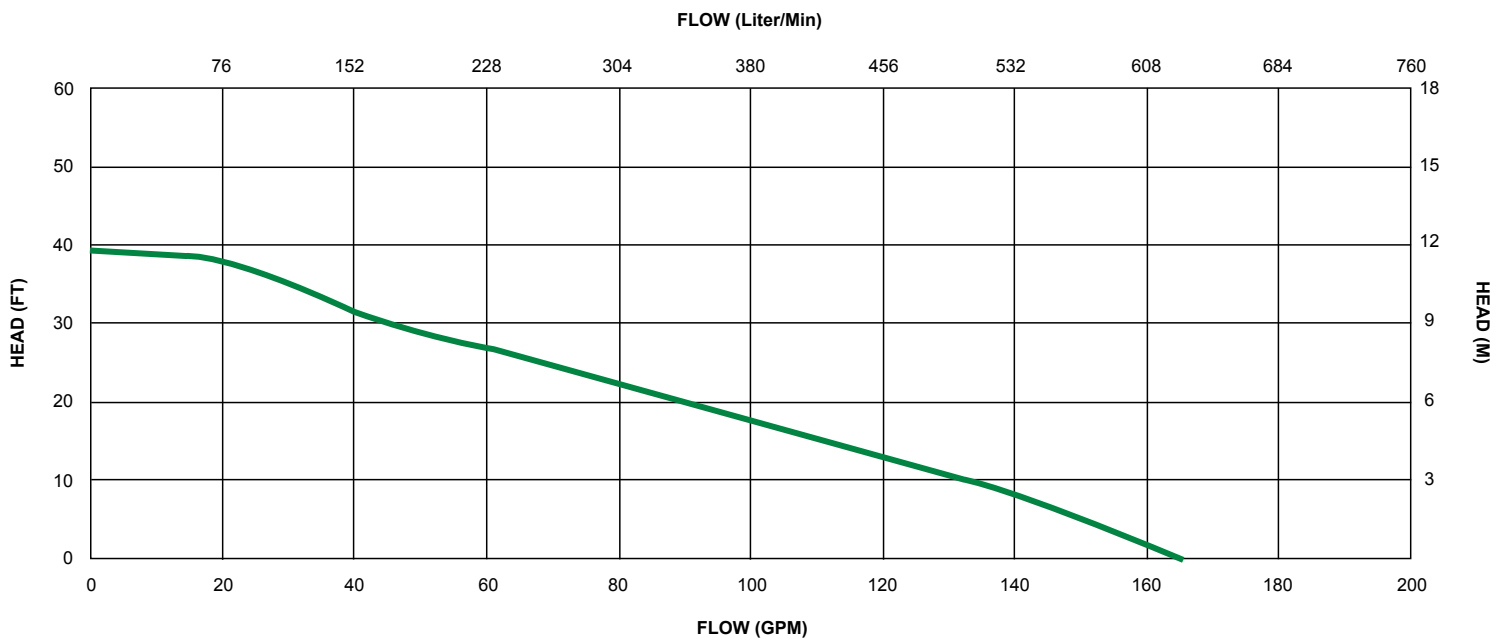
DIMENSIONS

FLANGE SIZE	DIMENSIONS										WEIGHT			
	A		B		C		D		E		CI		SS	
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lbs.	kg	lbs.	kg
2"	11	280	14.2	360	11.3	287	6.9	175	6.3	161	31	14.1	32.4	14.7

Do not use for construction purposes unless certified.



PERFORMANCE CURVE - VR20M



COMMENTS