

VR Series - VR20H | Submittal Data

Submittal No: 301-262 | Effective: August 18, 2021 | Supersedes: June 29, 2021

JOB: _____

REPRESENTATIVE: _____

ENGINEER: _____

CONTRACTOR: _____

PRODUCT DATA

ITEM NO. _____ MODEL NO. _____

MODE _____ MODE SETTING _____

GPM _____ HEAD/FT _____

NSF 61 & 372
CERTIFIED YES NO VOLTAGE _____

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 61 & 372 Commercial Hot

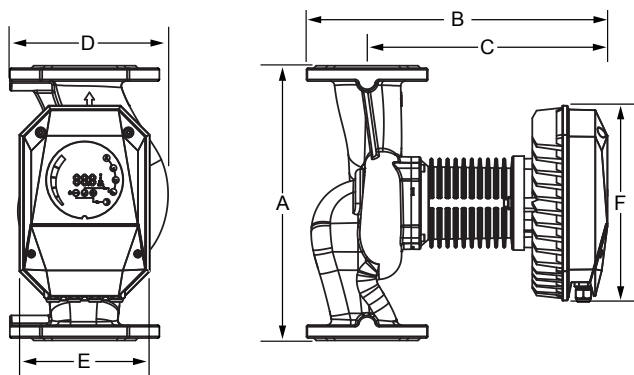


Stainless
Steel Model

DIMENSIONS

FLANGE SIZE	DIMENSIONS						WEIGHT LBS.	
	A	B	C	D	E	F	CI	SS
2"	11 (280)	15 (380)	11.7 (297)	8.3 (210)	6.5 (165)	9.5 (241)	33 (15)	34 (16)

English dimensions are in inches. Metric dimensions are in millimeters. Metric data is presented in ().
Do not use for construction purposes unless certified.



SPECIFICATIONS

MAX SHUT-OFF HEAD	53 feet
MAX. FLOW	189 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)	200-240
POWER CONSUMPTION (HP)	1.1 HP
POWER CONSUMPTION (W)	820 W
CURRENT LIMIT	6
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

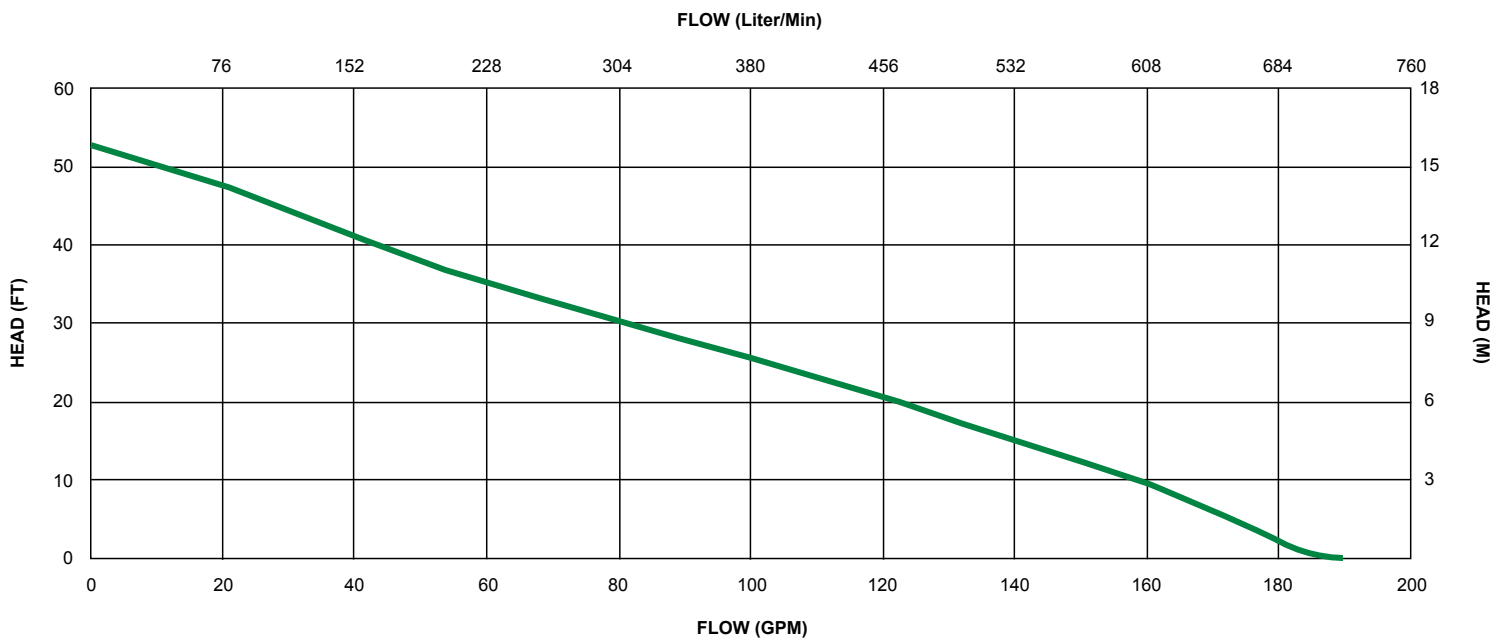
at pump suction port (PSIA / bar) to avoid cavitation at fluid temperatures

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

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

PERFORMANCE CURVE - VR20H



COMMENTS