

# **DESIGN ENVELOPE** 4200H | END SUCTION BASE MOUNTED | SINGLE PHASE | 1506-001.5 | **SUBMITTAL**

File No: 100.3408

Date: APRIL 18, 2016

Supersedes: NEW

Date: NEW

Engineer:						
PUMP DESIGN	I DATA			CONTROLS DATA		
		Tag:		Power supply:	Volts: 200-240\ Freq: 50/60Hz	
		Head:		Sensorless control:		
Liquid: Viscosity:				Minimum system pressure		
Temperature:	°F (°C)	Specific gravity:		to be maintained:		
Suction: 3"(75mm) Flanged				Protocol (standard):	: ☐ Modbus RTU ☐ BACnet™ MS/TP☐ Johnson® N2 ☐ Siemens® FLN	
Discharge: 1.5" (40 mm) Flanged				Protocol (optional):	: □ LonWorks®	
UL STD 778 & CSA STD C22.2 NO.108 certified  MOTOR DESIGN DATA				Enclosure:	: 🗆 Indoor – UL TYPE 12	
				Disconnect switch:	: □ Non-fused	
				EMI/RFI control:	: 1-phase IVS102 units do not meet the EN61800-3 directive	
				Harmonic suppression:	: Dual DC-link reactors (Equivalent: 5%	
HP: 1.5	rpm: 1800	Frame size: 145TC		AC line reactor) Supporting IEEE 519-1992 requirements**		
Enclosure: TEFC	Volts: 208	Freq: 60 Hz		Cooling:		ugh back channel
Phase: 3 Efficiency: NEMA premium 12.12			Ambient temperature:	: -10°C to +45°C up to 1000 meters above sea level (-14°F to +113°F, 3300 ft)		
MAXIMUM PUMP OPERATING CONDITIONS				Analog ı/o:	<ul><li>I/o: Two current or voltage inputs, one current output</li></ul>	

Representative:

\*If minimum maintained system pressure is not known: Default to 40% of design head

\*\*The IVS 102 drive is a low harmonic drive via built-in DC line reactors. This does not
guaranty performance to any system wide harmonic specification or the costs to meet
a system wide specification. If supplied with the system electrical details, Armstrong
will run a computer simulation of the system wide harmonics. If system harmonic
levels are exceeded Armstrong can also recommend additional harmonic mitigation
and the costs for such mitigation.

Pulse inputs: Two programmable

Relay outputs: Two programmable

Communication port: 1-RS485, 1-USB

Digital I/o: Six programmable inputs (two can

be configured as outputs)

# Pump equipped with casing drain plug and ¼" NPT suction and discharge gauge ports

#### **OPTIONAL EQUIPMENT**

certified dimensions

175 psig at 140°F (12 bars at 60°C)

100 psig at 300°F (7 bars at 149°C)

375 psig at 100°F (26 bars at 38°C)

275 psig at 300°F (19 bars at 149°C)

• Tolerance of ±0.125" (±3 mm) should be used

• For exact installation, data please write factory for

**ANSI 125** 

**ANSI 250** 

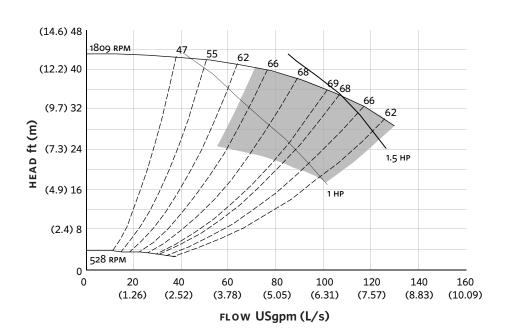
#### **MECHANICAL SEAL DATA**

Seal type: AB2 Stationary seat: Sintered silicon carbide
Secondary seal: Viton Rotating hardware: Stainless steel

**Spring:** Stainless steel

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### **EXTENDED SPEED**



Performance curves are for reference only.

Confirm current performance data with Armstrong ACE Online selection software.

#### **DIMENSION DATA**

INDOOR (UL TYPE 12/ODP)

Frame size: 145TC

**Size:** 3×1.5×6

**HP:** 1.5

**RPM:** 1800

**HA:** 14.00 (355)

**нв:** 30.00 (762)

**HB.** 30.00 (702)

**HC:** 26.57 (675)

**HD:** 8.25 (210)

**HE:** 6.37 (162)

**HF:** 13.00 (330)

**2HF:** 26.00 (660)

**HG:** 3.00 (76)

**HI:** 25.61 (650)

**HL:** 4.50 (114)

**HV:** 13.09 (333)

**NaN1:** 2.00 (51)

**NaN2:** 5.90 (150)

**x:** 6.50 (165) **y:** 4.00 (102)

Weight: 304 (137.8)

Dimensions - inch (mm) Weight - lbs (kg)

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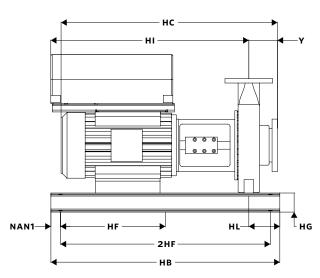
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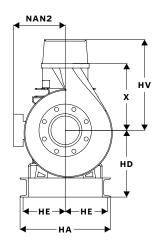
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