

# **DESIGN ENVELOPE** 4200H | END SUCTION BASE MOUNTED SPLIT-COUPLED | 0108-002.0 | SUBMITTAL

File No: 100.3230 Date: APRIL 18, 2016 Supersedes: NEW Date: NEW

Job:	Representative:	
	Order No:	Date:
Engineer:	Submitted by:	Date:
Contractor:	Approved by:	Date:

# PUMP DESIGN DATA

No. of pumps:	Tag:			
Capacity:USgpm (L/s)	Head:ft (m)			
Liquid:	Viscosity:			
Temperature:°F (°C)	Specific gravity:			
Suction: 1.5"(40mm) Flanged				
Discharge: 1"(25mm) Tapped holes				

### UL STD 778 & CSA STD C22.2 NO.108 certified

# MOTOR DESIGN DATA

HP: 2	rpm: 1800	Frame size: 145TC	Enclosure: TEFC
Volts:		Hertz: 60 Hz	Phase: 3

Efficiency: NEMA premium 12.12

### MAXIMUM PUMP OPERATING CONDITIONS

#### **ANSI 125**

175 psig at 140°F (12 bars at 60°C) 100 psig at 300°F (7 bars at 149°C)

## ANSI 250

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 certified dimensions
- Pump equipped with casing drain plug and ¼" NPT suction and discharge gauge ports

### **OPTIONAL EQUIPMENT**

# CONTROLS DATA

Sensorless Control:	Standard	
Minimum system pressure to be maintained:	ft (m)*	
Protocol (standard):	□ Modbus rtu □ bacnet™ ms/tp □ Johnson® n2 □ Siemens® fln	
Protocol (optional):	$\Box$ LonWorks <sup>®</sup>	
Enclosure:	□ Indoor – UL TYPE 12	
Fused disconnect switch:		
ЕМІ/RFI control:	Integrated filter designed to meet EN61800-3	
Harmonic suppression:	Dual DC-link reactors (Equivalent: 5% AC line reactor) Supporting IEEE 519-1992 requirements**	
Cooling:	Fan-cooled through back channel	
Ambient temperature:	: -10°C to +45°C up to 1000 meters above sea level (-14°F to +113°F, 3300 ft)	
Analog ı/o:	: Two current or voltage inputs, one current output	
Digital ı/o:	Six programmable inputs (two can be configured as outputs)	
Pulse inputs:	Two programmable	
Relay outputs:	Two programmable	
Communication port:	1-RS485, 1-USB	

\*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.

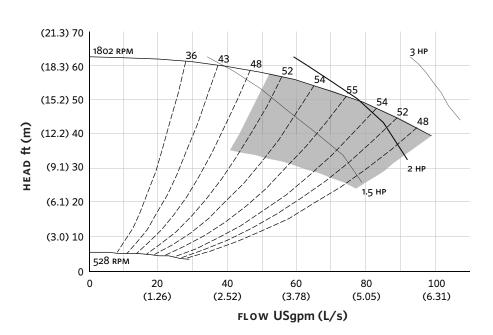
#### MECHANICAL SEAL DATA

Seal type: AB2	
Secondary seal: Viton	I
Spring: Stainless steel	

Stationary seat: Sintered silicon carbide Rotating hardware: Stainless steel

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## **EXTENDED SPEED**



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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:	1.5×1×8	
HP:	2	
RPM:	1800	
HA:	14.00 (355)	
HB:	30.00 (762)	
HC:	26.56 (675)	
HD:	9.25 (235)	
HE:	6.37 (162)	
HF:	13.00 (330)	
2HF:	26.00 (660)	
HG:	3.00 (76)	
HI:	25.60 (650)	
HL:	4.50 (114)	
HV:	13.09 (333)	
NaN1:	2.00 (51)	
NaN2:	5.90 (150)	
х:	6.50 (165)	
Y:	4.00 (102)	
Weight:	319 (144.9)	
Dimensions – inch (mm) Weight – Ibs (kg)		

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НD

NAN2

HE

HA

HE

INDOOR

NAN1-

TORONTO +1 416 755 2291

BUFFALO +1 716 693 8813

BIRMINGHAM +44 (0) 8444 145 145

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