

# **DESIGN ENVELOPE** 4200H | END SUCTION BASE MOUNTED SPLIT-COUPLED | 0410S007.5 | SUBMITTAL

File No: 100.3294 Date: APRIL 18, 2016 Supersedes: NEW Date: NEW

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

# PUMP DESIGN DATA

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No. of pumps:		lag:			
Capacity:	USgp	om (L/s)	Head:		_ft (m)
Liquid:			Viscosit	y:	
Temperature	e:	°F (°C)	Specific	gravity:	
Suction: 5"(125mm) Tapped holes					
Discharge: 4"(100mm) Flanged					
UL STD 778 & CSA STD C22.2 NO.108 certified					
HP: 7.5 RP	PM: 1200	Frame siz	ze: 254TC	Enclosure:	TEFC
Volts:		Hertz: 6	o 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:	E 🗆 Indoor – UL TYPE 12	
Fused disconnect switch:		
EMI/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.

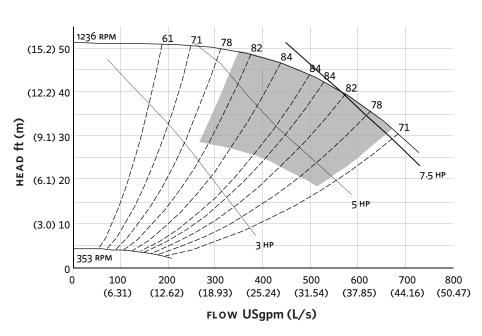
## MECHANICAL SEAL DATA

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

Stationary seat: Sintered silicon carbide Rotating hardware: Stainless steel

## 2

# EXTENDED SPEED



нс

HI

2HF

нв

0 0 0

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:	254TC	
Size:	5×4×10	
HP:	7.5	
RPM:	1200	
HA:	16.00 (406)	
HB:	40.00 (1016)	
HC:	36.63 (930)	
HD:	13.00 (330)	
HE:	7.37 (187)	
HF:	18.00 (457)	
2HF:	36.00 (914)	
HG:	3.00 (76)	
HI:	29.69 (754)	
HL:	4.50 (114)	
HV:	15.42 (392)	
NaN1:	2.00 (51)	
NaN2:	10.10 (257)	
x:	12.50 (318)	
Y:	4.00 (102)	
Weight:	726 (329.1)	
Dimensions – inch (mm)		

нν

HD

HE

HA

Weight – Ibs (kg)

NAN2

INDOOR

NAN1-

**TORONTO** +1 416 755 2291

**BUFFALO** +1 716 693 8813

**BIRMINGHAM** +44 (0) 8444 145 145

**MANCHESTER** +44 (0) 8444 145 145

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**BANGALORE** +91 (0) 80 4906 3555

**SHANGHAI** +86 21 3756 6696

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ARMSTRONGFLUIDTECHNOLOGY.COM

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+55 11 4781 5500

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