

# **DESIGN ENVELOPE** 4200H | END SUCTION BASE MOUNTED | SINGLE PHASE | 0610-007.5 | SUBMITTAL

File No: 100.3458 Date: APRIL 18, 2016 Supersedes: NEW Date: NEW

Jop:	Representative:		
	_ Order No:	Date:	
Engineer:	_ Submitted by:	Date:	
Contractor:	Approved by:	Date:	
PUMP DESIGN DATA	CONTROLS DATA		

No. of pumps:		Tag:	Power supply:	Volts: 200-240VAC
Capacity:	_USgpm (L/s)	Head:ft (m)	Sensorless control:	Freq: 50/60Hz Phase: 1 Standard
Liquid:		Viscosity:	Minimum system pressure	
Temperature:	°F (°C)	Specific gravity:	to be maintained:	ft (m)*
Suction: 8"(200mm) Tapped holes		Protocol (standard):	□ Modbus rtu □ bacnet™ ms/tp □ Johnson® n2 □ Siemens® fln	
Discharge: 6"(150mm) Flanged		Protocol (optional):	□ LonWorks <sup>®</sup>	
UL STD 778 & CSA STD C22.2 NO.108 certified		Enclosure:	🗆 Indoor – UL TYPE 12	
		Disconnect switch:	$\Box$ Non-fused	
MOTOR DESI	GN DATA		ЕМІ/RFI control:	1-phase Ivs102 units do not meet the EN61800-3 directive
нр: 7.5	RPM: 1200	Frame size: 254TC	Harmonic suppression:	Dual DC-link reactors (Equivalent: 5% Ac line reactor) Supporting IEEE 519-1992 requirements**
Enclosure: TEFC	Volts: 208	Freq: 60 Hz	Cooling:	Fan-cooled through back channel
Phase: 3	Efficiency: NE	MA 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:	Two current or voltage inputs, one current output	
ANSI 125			Digital ı/o:	Six programmable inputs (two can be configured as outputs)
175 psig at 140°F (			Pulse inputs:	Two programmable
100 psig at 300°F (7 bars at 149°C)		Relay outputs:	Two programmable	
ANSI 250			Communication port:	1-rs485, 1-usb
375 psig at 100°F (26 bars at 38°C) 275 psig at 300°F (19 bars at 149°C)		*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		
• Tolerance of ±0.125" (±3 mm) should be used		• • • • • • • • • • •	n wide harmonic specification or the costs to meet lied with the system electrical details, Armstrong	

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- 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**

## MECHANICAL SEAL DATA

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

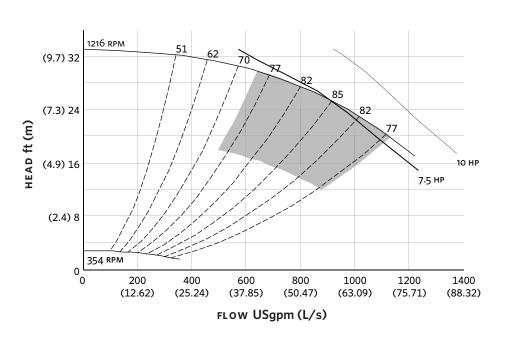
and the costs for such mitigation.

Stationary seat: Sintered silicon carbide Rotating hardware: Stainless steel

will run a computer simulation of the system wide harmonics. If system harmonic levels are exceeded Armstrong can also recommend additional harmonic mitigation

#### 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:	8×6×10		
HP:	7.5		
RPM:	1200		
HA:	16.00 (406)		
нв:	45.00 (1143)		
HC:	36.63 (930)		
HD:	13.00 (330)		
HE:	7.37 (187)		
HF:	20.50 (521)		
2HF:	41.00 (1041)		
HG:	3.00 (76)		
HI:	31.84 (809)		
HL:	4.50 (114)		
HV:	17.67 (449)		
NaN1:	2.00 (51)		
NaN2:	10.10 (257)		
х:	12.00 (305)		
Y:	4.00 (102)		
Weight:	778 (352.7)		
Dimensions - inch (mm)			

нν

HD

HE

HA

Weight – Ibs (kg)

NAN2

INDOOR

**TORONTO** +1 416 755 2291

**BUFFALO** +1 716 693 8813

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

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

144 (0) 0444 145 145

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

**SHANGHAI** +86 21 3756 6696

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+55 11 4781 5500

SÃO PAULO