

# **DESIGN ENVELOPE** 4200H | END SUCTION BASE MOUNTED | SINGLE PHASE | 1508-005.0 | **SUBMITTAL**

File No: 100.3432

Date: APRIL 18, 2016

Supersedes: NEW

Date: NEW

Job:			Representative:		
			Order	No:	Date:
Engineer: Contractor:					
		Tag:		Power supply:	Volts: 200-240VAC Freq: 50/60Hz
		Head:		Sensorless control:	Standard
		Viscosity: Specific gravity:		Minimum system pressure to be maintained:	ft (m)*
Suction: 3"(75mm) Flanged				Protocol (standard):	☐ Modbus RTU ☐ BACnet <sup>TM</sup> MS/TP☐ Johnson® N2 ☐ Siemens® FLN
Discharge: 1.5" (40 mm) Flanged				Protocol (optional):	$\square$ LonWorks $^{\circledR}$
UL STD 778 & CSA STD C22.2 NO.108 certified				Enclosure:	☐ Indoor – UL TYPE 12
of 515 776 a con 515 czziz nonoo ceranea				Disconnect switch:	
MOTOR DESIGN DATA				EMI/RFI control:	1-phase IVS102 units do not meet the EN61800-3 directive
HP: 5	RPM: 1800	Frame size: 184TC		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: 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 I/o:	Two current or voltage inputs, one current output
ANSI 125				Digital 1/0:	Six programmable inputs (two can be configured as outputs)
175 psig at 140°F (12 bars at 60°C)				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

\*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 Stationary seat: Sintered silicon carbide
Secondary seal: Viton Rotating hardware: Stainless steel

Spring: Stainless steel

**OPTIONAL EQUIPMENT** 

and discharge gauge ports

certified dimensions

375 psig at 100°F (26 bars at 38°C)

275 psig at 300°F (19 bars at 149°C)

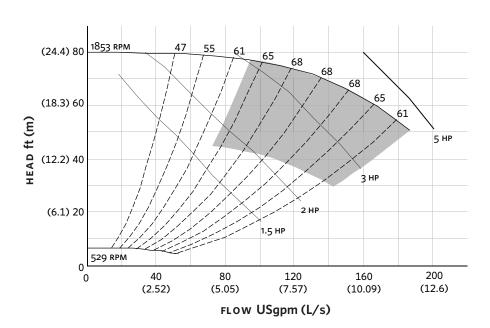
• Tolerance of ±0.125" (±3 mm) should be used

• For exact installation, data please write factory for

• Pump equipped with casing drain plug and 1/4" NPT suction

2

#### **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: 184T

**Size:** 3×1.5×8

**HP:** 5

**RPM:** 1800

**HA:** 14.00 (355)

**HB:** 30.00 (762)

**HC:** 30.63 (778)

**HD:** 9.25 (235)

**HE:** 6.37 (162)

**HF:** 13.00 (330)

**2HF:** 26.00 (660)

**HG:** 3.00 (76)

ни: 28.96 (736)

**HL:** 4.50 (114)

**HV:** 17.05 (433)

**NaN1:** 2.00 (51)

**NaN2:** 7.17 (182)

**x:** 8.50 (216)

**y:** 4.00 (102)

Weight: 382 (173.1)

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

## INDOOR

ESTABLISHED 1934



+1 416 755 2291

### BUFFALO

+1 716 693 8813

#### BIRMINGHAM

+44 (0) 8444 145 145

#### MANCHESTER

+44 (0) 8444 145 145

## BANGALORE

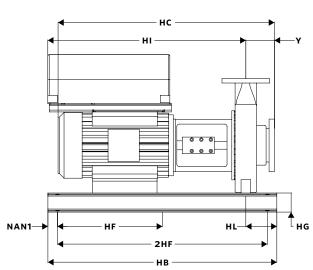
+91 (0) 80 4906 3555

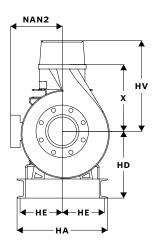
#### SHANGHAI

+86 21 3756 6696

## SÃO PAULO

+55 11 4781 5500





ARMSTRONG FLUID TECHNOLOGY

ARMSTRONGFLUIDTECHNOLOGY.COM