

# **DESIGN ENVELOPE 4300 VIL**

# SINGLE PHASE | 0408-007.5 | SUBMITTAL

File No: 100.4296

Date: OCTOBER 27, 2014

Supersedes: NEW

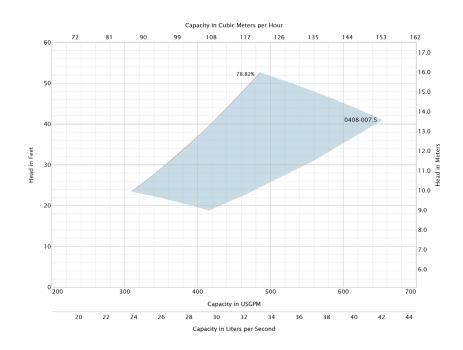
Date: NEW

Job:         Rep           Ord         Ord		Repres	Representative:				
		Order	r No:		_ Date:		
Engineer: Sub Contractor: App			Submitted by:				Date: _
			Appro	oved by:			
PUMP DESIGI	N DATA			CONTROLS DATA			
No. of pumps:		Tag:		: Power supply:	Volts: 200-240VAC		
Capacity:	USgpm (L/s)	Head:	ft (m)	•	<b>Freq</b> : 50/60Hz	Phase: 1	
Liquid:		Viscosity:		Sensorless Control:	Standard		
Temperature:	°F (°C)	Specific gravity: _		Minimum system pressure to be maintained:		ft (m)*	
Suction: 4" (100mm) Discharge: 4" (100mm)			: Orientation:	: □ L1 (default) □ I	.2 🗆 L3 🗆 L4		
				Protocol (standard):		BACnet™ MS/TI	
MOTOR DESIGN DATA			Protocol (optional):	: □ LonWorks®			
нр: 7.5	rрм: 1740	Frame size:		Enclosure:	□ Indoor – UL TYPE 12		
Enclosure:	Volts: 208	Freq: 60 Hz		•	□ Outdoor - UL TY Wea	PE 4X with ther Shield	
Phase: 3 Efficiency:		EMA premium			☐ Outdoor - UL TYPE 4X less Weather Shield		
				Disconnect switch:	$\square$ Non-fused		
MAXIMUM PUMP OPERATING CONDITIONS				EMI/RFI control:	1-phase IVS102 units do not meet the EN61800-3 directive		
ANSI 125  175 psig at 150°F (12 bars at 65°C)  100 psig at 300°F (7 bars at 150°C)				Harmonic suppression:	Dual DC-link reactors (Equivalent: 5% AC line reactor) Supporting IEEE 519-1992 requirements**		
ANSI 250				Cooling:	Fan-cooled throug	h back channel	
375 psig at 150°F (26 bars at 65°C) 260 psig at 300°F (21 bars at 150°C)				Ambient temperature:	a-10°c to +45°c up to above sea level (-12 3300 ft)		
<ul> <li>Tolerance of ±0.125" (±3 mm) should be used</li> <li>For exact installation, data please write factory for</li> </ul>			Analog ı/o:	Two current or volone current output			
certified dimen		e write factory for		Digital ı/o:	Six programmable be configured as o		
				Pulse inputs:	Two programmabl	е	
MECHANICAL SEAL DESIGN DATA				Relay outputs:	Two programmabl	е	
See file no. 43.50 for standard mechanical seal details as				Communication port:	1-RS485, 1-USB		
indicated below				*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			
Armstrong seal reference number			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				
☐ A1 (c) ☐ Others:							

harmonic levels are exceeded Armstrong can also recommend additional harmonic

 $\label{eq:mitigation} \mbox{mitigation and the costs for such mitigation}.$ 

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Performance curves are for reference only.

 $Confirm\ current\ performance\ data\ with\ Armstrong\ {\tt ACE}\ Online\ selection\ software.$ 

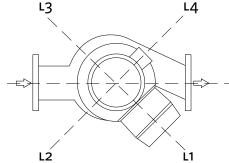
ESTABLISHED 1934

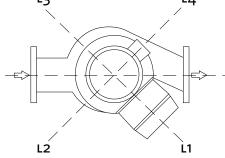
# **DIMENSION DATA**

	INDOOR (UL TYPE 12/ODP)	OUTDOOR (UL TYPE 4X/TEFC)
Frame size:	213	213
Size:	4×4×8	4×4×8
HP:	7.5	7.5
RPM:	1740	1740
AB:	31.89(810)	37.92(963)
в:	8.00(203)	8.00(203)
c:	6.31(160)	6.31(160)
D:	11.00(279)	11.00(279)
E:	14.95(380)	18.45(469)
F:	14.95(380)	18.43(468)
P:	12.13(308)	11.25(286)
s:	14.00(356)	14.00(356)
SD:	25.00(635)	25.00(635)
T:	8.00(203)	8.00(203)
XY:	28.19(716)	29.32(745)
Weight:	396(179.6)	446(202.3)

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

INDOOR





# TORONTO

+1 416 755 2291

#### BUFFALO

+1 716 693 8813

# BIRMINGHAM

+44 (0) 8444 145 145

### MANCHESTER

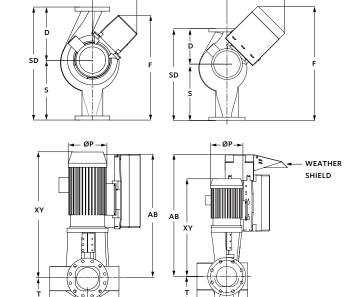
+44 (0) 8444 145 145

# BANGALORE

+91 (0) 80 4906 3555

# SHANGHAI

+86 21 3756 6696



OUTDOOR

ARMSTRONG FLUID TECHNOLOGY

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