

# DESIGN ENVELOPE 4312 TWIN | 0208-020.0 | SUBMITTAL

File No: 100.4758

Date: JANUARY 14, 2016

Supersedes: 100.4758

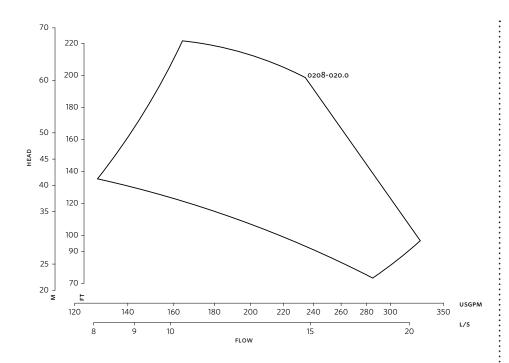
Date: AUGUST 14, 2015

Job:		Representative:	
		Order No:	Date:
Engineer:			
Contractor: A			
PUMP DESIGN DATA		CONTROLS DATA	
No. of pumps:	Tag:	Sensorless Control:	Standard
Capacity:USgpm (L/s) Liquid:		to be maintained.	ft (m)*
Temperature:°F (°C)	Specific gravity:	D	☐ Modbus RTU ☐ BACnet <sup>TM</sup> MS/TP☐ Johnson® N2 ☐ Siemens® FLN
Suction: 2" (50mm)		Protocol (optional):	□ LonWorks®
OSHPD Seismic Certification OUL STD 778 & CSA STD C22.2 N		Enclosure:	☐ Indoor – UL TYPE 12 ☐ Outdoor – UL TYPE 4X with
			Weather Shield  ☐ Outdoor - UL TYPE 4X less  Weather Shield
MOTOR DESIGN DATA		Fused disconnect switch:	
HP: RPM: Frame si	ze: Enclosure:	— Duty/standby	
Volts: Hertz: 6	60 Hz Phase: 3	pre-wired bridge:	
Efficiency: NEMA premium 12.1	2	емі/RFI control:	Integrated filter designed to meet EN61800-3
MAXIMUM PUMP OPERA	TING CONDITIONS	Harmonic suppression:	Dual DC-link reactors (Equivalent: 5% Ac line reactor) Supporting IEEE 519-1992 requirements**
ANSI 125		Cooling:	Fan-cooled through back channel
175 psig at 150°F (12 bars at 65°C) 140 psig at 250°F (10 bars at 121°C)		Ambient temperature:	-10°C to +45°C up to 1000 meters above sea level (-14°F to +113°F, 3300 ft)
• Tolerance of ±0.125" (±3 mm) should be used		Analog ı/o:	Two current or voltage inputs, one current output
For exact installation, data please write factory for certified dimensions		Digital ı/o:	Six programmable inputs (two can be configured as outputs)
		Pulse inputs:	Two programmable
		Relay outputs:	Two programmable
MECHANICAL SEAL DESIGN DATA		Communication port:	1-RS485, 1-USB
See file no. 43.50 for standard mechanical seal details as indicated below		*If minimum maintained system pres	sure is not known: Default to 40% of design head drive via built-in pc line reactors. This does not
Armstrong seal reference number		<u> </u>	m wide harmonic specification or the costs to meet

☐ c1 (a)

☐ Others: \_

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 mee 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.



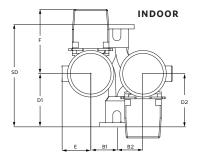
Performance curves are for reference only.

Confirm current performance data with Armstrong ACE Online selection software.

## **DIMENSION DATA**

	INDOOR	OUTDOOR
	(UL TYPE 12/ODP)	(UL TYPE 4X/TEFC)
Frame size:	254TC	256TC
Size:	2×2×8	2×2×8
HP:	20	20
RPM:	3600	3600
AB:	36.00(914)	41.78(1061)
B1:	8.19(208)	8.19(208)
B2:	8.66(220)	8.66(220)
C1:	13.91(353)	13.91(353)
C2:	14.38(365)	14.38(365)
D1:	8.27(210)	8.27(210)
D2:	9.06(230)	9.06(230)
E:	9.94(252)	8.90(226)
F:	17.84(453)	21.44(545)
P:	13.38(340)	13.38(340)
SD:	15.75(400)	15.75(400)
T:	5.12(130)	5.12(130)
XY:	34.04(865)	34.10(866)
Weight:	817(370.6)	1013(459.5)

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



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#### MANCHESTER

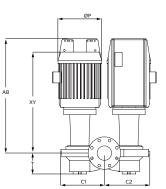
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### BANGALORE

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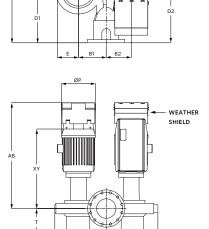
## SHANGHAI

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ARMSTRONG FLUID TECHNOLOGY

ESTABLISHED 1934



OUTDOOR

