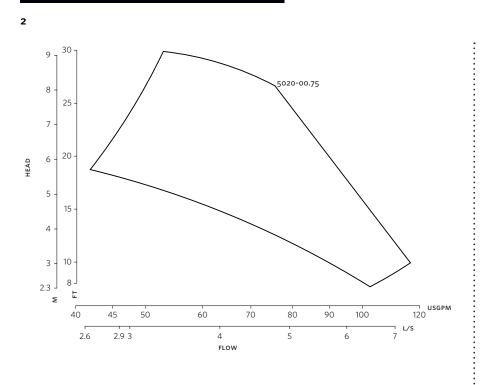


## **DESIGN ENVELOPE** 4312 TWIN 5020-00.75 SUBMITTAL

File No: 100.4745IN Date: AUGUST 14, 2015 Supersedes: 100.4745IN Date: MAY 27, 2015

Job:	Representative:	
	Order No: Date:	
Engineer:	Submitted by: Date:	
Contractor:	Approved by: Date:	
PUMP DESIGN DATA	CONTROLS DATA	
No. of pumps: Tag:	Sensorless control: Standard	
Capacity: m <sup>3</sup> /h(USgpm) Head: m Liquid: Viscosity:		*
Temperature:°C (°F) Specific gravity:	Protocol (standard): □ Modbus RTU □ BACnet™ □ Johnson® №2 □ Siemens	
Suction: 50mm (2") Discharge: 50mm (2	") Protocol (optional):	
	<b>Enclosure:</b> Indoor - 1P55 Outdoor - 1P66	
MOTOR DESIGN DATA	Fused disconnect switch:	
kW: RPM: Enclosure: Volts: Hertz: 50 Hz Phase: 3	── Duty/standby pre-wired bridge: □	
Efficiency:  IE2 Frame size: MAXIMUM PUMP OPERATING CONDITIONS	емі/кғі control: Integrated filter designed to EN61800-3	) meet
	Harmonic suppression: Dual dc-link reactors (Equiv 5% Ac line reactor) Supporti IEEE 519-1992 requirements*	ing
PN 16	Cooling: Fan-cooled through back ch	
16 bars at 149°C (232 psig at 300°F) 7 bars at 150°C (100 psig at 300°F)	Ambient temperature: -10°C to +45°C up to 1000 meters above sea level (-14°F to +113°F, 3300 ft)	
<b>PN 25</b> 25 bars at 149°C (375 psig at 300°F)	Analog I/o: Two current or voltage input one current output	ts,
21 bars at 150°C (260 psig at 300°F)	<b>Digital ı/o:</b> Six programmable inputs (tv can be configured as output	
<ul> <li>Tolerance of ±3 mm (±0.125") should be used</li> <li>For exact installation, data please write factory for</li> </ul>	Pulse inputs: Two programmable	
certified dimensions	Relay outputs: Two programmable	
	Communication port: 1-RS485, 1-USB	
<b>MECHANICAL SEAL DESIGN DATA</b> See file no. 43.50 for standard mechanical seal details indicated below	<ul> <li>*If minimum maintained system pressure is not known: Default to 40% of des</li> <li>**The IVS 102 drive is a low harmonic drive via built-in DC line reactors. This d guaranty performance to any system wide harmonic specification or the comeet a system wide specification. If supplied with the system electrical de Armstrong will run a computer simulation of the system wide harmonics. I harmonic levels are exceeded Armstrong can also recommend additional h</li> </ul>	does not costs to etails, If system
Armstrong seal reference number	mitigation and the costs for such mitigation.	
□ c1 (a) □ Others:		

Design Envelope 4312 twin



DIMENSION DATA

	INDOOR IP55
Frame size:	80
Size:	5020-00.75
kW:	75
RPM:	1500
AB:	526(20.70)
B1:	208(08.27)
B2:	220(08.75)
C1:	353(13.98)
C2:	365(14.46)
D1:	210(08.35)
D2:	230(09.14)
E:	123(04.84)
F:	148(05.82)
P:	170(06.78)
SD:	400(15.74)
т:	130(05.11)
XY:	541(21.38)
Weight:	144.24(317)

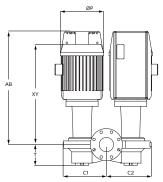
Dimensions – mm (inch) Weight – kg (lbs)

:

D2

Performance curves are for reference only.

Confirm current performance data with Armstrong ACE Online selection software.



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INDOOR