

# DESIGN ENVELOPE 4300 VIL

FLOW READOUT ACCURACY

The Design Envelope model selected will provide flow reading

on the controls local keypad & digitally for the вмs. The model

readout will be factory tested to ensure ±5% accuracy.

# 32-125 (1.25×1.25×5) 3212-001.5 SUBMITTAL

File No: 101.5423IEC

Date: NOVEMBER 08, 2021

Supersedes: NEW

Date: NEW

Job:	Representative:	
	Order No:	Date:
Engineer:	Submitted by:	Date:
Contractor:	Approved by:	Date:
PUMP DESIGN DATA	DEPM MOTOR AND	CONTROL DATA
No. of pumps: Tag:	k\	<b>V:</b> 1.5
Capacity:L/s (USgpm) Head:	m (ft) RP	<b>м:</b> 3600
Liquid: Viscosity:		e: TEFC
Temperature: °C (°F) Specific gravit		e: □ 200-240V/1ph □ 380-480V/3ph
Suction: 32 mm (1.25") Discharge: 32	•	For 200-240V/3ph or 575V/3ph,
	:	see File #:101.5407IEC
MEI ≥ 0.70	Efficience	•
	•	n: ☐ L5 (default) ☐ L6
	Protocol (standard	H): ☐ BACnet™ MS/TP
MATERIALS OF CONSTRUCTION		<ul><li>□ BACnet™ TCP/IP</li><li>□ Modbus RTU</li></ul>
□ PN 16	Control enclosur	e: ☐ Indoor - IP 55
CONSTRUCTION: LPDEBF	: Control enclosur	□ Outdoor - IP 66
E-coated ductile iron A 536 Gr 565-45-12, br	onze fitted Fused disconnect switch	:h: See File 100.8131
	•	ol: Integrated filter designed to meet EN61800-3
MAXIMUM PUMP OPERATING CONDITION IN PN 16	ONS Harmonic suppression	on: Equivalent: 5% AC line reactor - Sup- porting IEEE 519-1992 requirements**
16 bars at 49°C (232 psig at 120°F)	Coolir	g: Fan-cooled, surface cooling
7 bars at 150°C (100 psig at 300°F)	Ambient temperatu	re: -10°C to +40°C up to 1000 meters above sea level (+14°F to +104°F, 3300 ft)
MECHANICAL SEAL DESIGN DATA	Analog ı	o: Two inputs, one output. Output
See file no. 43.50 for standard mechanical seal de	taile as	can be configured for voltage
indicated below	<b>:</b>	or current
Armstrong seal reference number	Digital 1/	<b>70:</b> Two inputs, two outputs. Outputs can be configured as inputs
☐ c1 (a) ☐ Others:	Relay outpu	ts: Two programmable
L CI (a) L Ouicis.	Communication po	

<sup>\*\*</sup> 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.

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## **OPTIONS**

## SENSORLESS BUNDLE (STANDARD)



Operation of pump without a remote sensor. Includes:

- Sensorless control
- Flow readout
- Constant flow
- Constant pressure

Minimum system pressure to be maintained m (ft)

\* If minimum maintained system pressure is not known: Default to 40% of design head

# ☐ PARALLEL SENSORLESS



Operation of multiple pumps without a remote sensor

Minimum system pressure to be maintained m (ft)

\* If minimum maintained system pressure is not known: Default to 40% of design head

## ☐ ENERGY PERFORMANCE BUNDLE



Provides energy savings on oversized systems by adjusting pump parameters to on-site conditions. Includes:

- Auto-flow balancing Automatically determines control curve between design flow at on-site system head, and minimum (zero-head) flow for energy savings
- Maximum flow control Limits flow rate to pre-set maximum for potential energy savings

Maximum flow rate L/s (gpm)

- \*Only available if sensorless bundle is enabled
- \*Available in single pump operation only

## $\square$ PROTECTION BUNDLE



Protects other flow sensitive equipment by setting limits of pump operation. Includes:

- Minimum flow control Attempts to maintain flow rate to pre-set minimum to protect equipment in system
- Bypass valve control Actuates a bypass valve to protect flow sensitive equipment if pre-set minimum flow rate is reached

Minimum flow rate L/s (gpm)

## ☐ DUAL SEASON SETUP



Pre-sets heating and cooling parameters for pumps in 2-pipe systems

## Cooling

Duty point	L/s (gpm) at m (ft)
Minimum system	pressure to be maintained m (ft)
Heating	
Duty point	L/s (gpm) at m (ft)
Minimum system	pressure to be maintained m (ft)

## **OPTIONAL SERVICES**

## **ON-SITE PUMP COMMISSIONING**



# **PUMP MANAGER**



Online service for sustained pump performance and enhanced reliability.

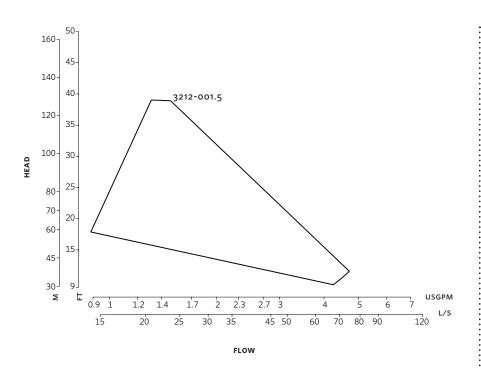
Available in 3 or 5 year terms

- \* Requires an internet connection to be provided by building
- \* Includes an extended warranty for parts and labour (wearable parts excluded)

<sup>\*</sup>Only available if sensorless bundle is enabled

<sup>\*</sup>Available in single pump operation only

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## **DIMENSION DATA**

	INDOOR (IP55/TEFC)	OUTDOOR (IP66/TEFC)
Size:	32-125	32-125
κW:	1.5	1.5
RPM:	3600	3600
Frame:	71	71
AB:	440 (17.32)	468 (18.42)
в:	89 (3.51)	89 (3.51)
C:	81 (3.20)	81 (3.20)
CI:	-	70 (2.75)
D:	132 (5.20)	132 (5.20)
E:	152 (5.98)	162 (6.38)
s:	148 (5.83)	148 (5.83)
SD:	280 (11.02)	280 (11.02)
T:	76 (3.00)	76 (3.00)
Weight:	25.0 (55)	25.0 (55)

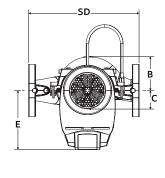
Dimensions - mm (inch) Weight - kg (lbs)

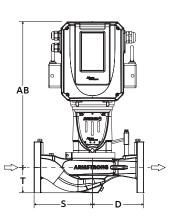
- Tolerance of  $\pm 3$  mm ( $\pm 0.125$ ") should be used
- For exact installation, data please write factory for certified dimensions

Performance curves are for reference only.

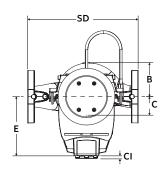
Confirm current performance data with Armstrong ADEPT Quote or ADEPT Select selection software.

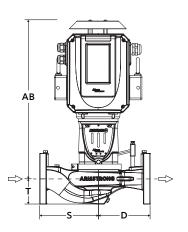
# INDOOR



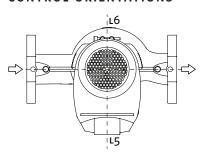


# OUTDOOR





# CONTROL ORIENTATIONS



## TORONTO

23 BERTRAND AVENUE TORONTO, ONTARIO CANADA, M1L 2P3 +1 416 755 2291

#### BUFFALO

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## JIMBOLIA

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