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DESIGN ENVELOPE 4372 TANGO

65-125 (2.5×2.5×5) | 6512-001.5 | SUBMITTAL

File No: 102,5197IEC Date: NOVEMBER 08, 2021 Supersedes: NEW

Job:		Represe	ntative:	
		Order N	0:	
Engineer: Subn Contractor: Appr			-	
PUMP DESIGN DATA		:	DEPM MC	
No. of pumps:	Tag:	:		
Total system design flow:	L/s (USg	jpm)		
Head: m (ft)	Capacity split	%	Мо	
Flow per pump head:	L/s (USg	jpm)		
Parallel flow:	L/s (USg	ıpm)		
Liquid:	Viscosity:	:		
Temperature: °C (°F)	Specific gravity:	:		
Suction: 65 mm (2.5")	Discharge: 65 mm (2.5"))	Protoc	
MEI ≥ 0.70		:	Cont	
MATERIALS OF CONSTRU	UCTION			
□ pn 16			Fused disco	
CONSTRUCTION: LPDESF		:	Ei	
E-coated ductile iron A536	Gr 65-45-12, stainless fi	tted :	Harmoni	
□ PN 25 CONSTRUCTION: HPDESF		:		
E-coated ductile iron A536	Gr 120 - 90 - 2, stainless f	itted		
MAXIMUM PUMP OPERA	TING CONDITIONS	:	Ambient	
□ PN 16 16 bars at 49°C (232 psig a				
7 bars at 150°C (100 psig a □ PN 25	t 300°F)			
25 bars at 65°c (362 psig		:		
21 bars at 150°C (304 psig	at 300°F)	:		
FLOW READOUT ACCURA	CY		ı	
The Design Envelope model sele	ected will provide flow read	ling	Commi	
on the controls local keypad & c			** If supplied v	
readout will be factory tested to	ensure ±5% accuracy.	:	simulation o	

OTOR AND CONTROL DATA

kW: 1.5

RPM: 3000

tor enclosure: TEFC

Volts / Phase: □ 200-240 V/1ph □ 380-480 V/3ph

For 200-240V/3ph or 575V/3ph,

see File #:102.5121IEC

Efficiency: IE5

Orientation: Standard

col (standard): □ BACnet™ MS/TP

☐ BACnet™ TCP/IP ☐ Modbus RTU

trol enclosure:

Indoor - IP 55

☐ Outdoor - IP 66

onnect switch: See File 100.8131

MI/RFI control: Integrated filter designed to meet

EN61800-3

c suppression: Equivalent: 5% Ac line reactor

- Supporting IEEE 519-1992

requirements**

Cooling: Fan-cooled, surface cooling

t temperature: -10°C to +40°C up to 1000 meters

above sea level (+14°F to +104°F,

3300 ft)

Analog I/o: Two inputs, one output. Output

can be configured for voltage

Digital I/o: Two inputs, two outputs. Outputs

can be configured as inputs

Relay outputs: Two programmable

unication port: 1-RS485

with the system electrical details, Armstrong will run a computer

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 DESIGN DATA

Seal type: 2A Stationary seat: Silicone carbide Secondary seal: EPDM **Spring:** Stainless steel Rotating hardware: Stainless steel

FLUID TYPE	ALL GLYCOLS >	30% WT CONC	ALL OTHER NO	N-POTABLE FLUIDS	POTABLE (DRI	NKING) WATER
Temperature	up to 93°C / 200°F	over 93°C / 200°F	up to 93°c / 200°F	over 93°C / 200°F	up to 93°C / 200°F	over 93°C / 200°F
Rotating face	Silicone carbide		Resin bonded carbon	Antimony loaded carbon	Resin bonded carbon	
Seat elastomer	EPDM (L-cup)	EPDM (0-ring)	EPDM (L-cup)	EPDM (0-ring)	EPDM (L-cup)	EPDM (O-ring)
Material code	SCsc L EPSS 2A	SCsc o epss 2A	C-SC L EPSS 2A	ACsc o epss 2A	C-SC L EPSS 2A	C-SC O EPSS 2A

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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)

□ 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

Outy point	L/s (gpm) at m (ft)
Minimum system pre m (essure to be maintained
Heating	
Outy point	L/s (gpm) at m (ft)
Minimum system pre	essure 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)

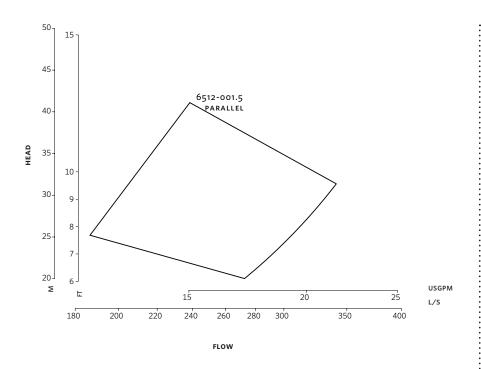
^{*}Only available if sensorless bundle is enabled

^{*}Available in single pump operation only

^{*}Only available if sensorless bundle is enabled

^{*}Available in single pump operation only

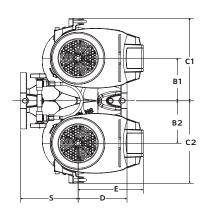
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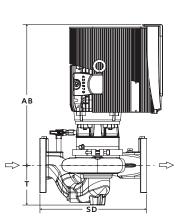


Performance curves are for reference only.

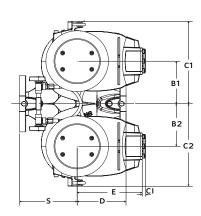
 $Confirm\ current\ performance\ data\ with\ Armstrong\ ADEPT\ Quote\ or\ ADEPT\ Select\ selection\ software.$

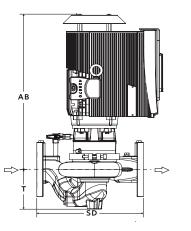
INDOOR





OUTDOOR





DIMENSION DATA

	INDOOR	OUTDOOR
	(IP55/TEFC)	(IP66/TEFC)
Size:	65-125	65-125
kW:	1.5	1.5
RPM:	3000	3000
Frame:	71	71
AB:	367 (14.45)	396 (15.59)
B1:	140 (5.50)	140 (5.50)
B2:	140 (5.50)	140 (5.50)
C1:	283 (11.16)	283 (11.16)
C2:	283 (11.16)	283 (11.16)
CI:	_	70 (2.75)
D:	156 (6.15)	156 (6.15)
E:	152 (5.98)	163 (6.42)
s:	184 (7.24)	184 (7.24)
SD:	340 (13.39)	340 (13.39)
T:	130 (5.12)	130 (5.12)
Weight:	61.0 (135)	61.0 (135)

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

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

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ARMSTRONG FLUID TECHNOLOGY ESTABLISHED 1934

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