

DESIGN ENVELOPE 4200H | END SUCTION BASE MOUNTED SPLIT-COUPLED | 0610-025.0 | SUBMITTAL

File No: 100,3318
Date: APRIL 18, 2016
Supersedes: NEW
Date: NEW

Job: _____ Representative: _____
Order No: _____ Date: _____
Engineer: _____ Submitted by: _____ Date: _____
Contractor: _____ Approved by: _____ Date: _____

PUMP DESIGN DATA

No. of pumps: _____ Tag: _____
Capacity: _____ USgpm (L/s) Head: _____ ft (m)
Liquid: _____ Viscosity: _____
Temperature: _____ °F (°C) Specific gravity: _____
Suction: 8" (200mm) Tapped holes
Discharge: 6" (150mm) Flanged

UL STD 778 & CSA STD C22.2 NO.108 certified

MOTOR DESIGN DATA

HP: 25 RPM: 1800 Frame size: 284TC Enclosure: TEFC
Volts: _____ Hertz: 60 Hz Phase: 3
Efficiency: NEMA premium 12.12

MAXIMUM PUMP OPERATING CONDITIONS

ANSI 125

175 psig at 140°F (12 bars at 60°C)
100 psig at 300°F (7 bars at 149°C)

ANSI 250

375 psig at 100°F (26 bars at 38°C)
275 psig at 300°F (19 bars at 149°C)

- Tolerance of $\pm 0.125"$ (± 3 mm) should be used
- For exact installation, data please write factory for certified dimensions
- Pump equipped with casing drain plug and $\frac{1}{4}"$ NPT suction and discharge gauge ports

OPTIONAL EQUIPMENT

CONTROLS DATA

Sensorless Control: Standard

Minimum system pressure
to be maintained: _____ ft (m)*

Protocol (standard): ☐ Modbus RTU ☐ BACnet™ MS/TP
☐ Johnson® N2 ☐ Siemens® FLN

Protocol (optional): ☐ LonWorks®

Enclosure: ☐ Indoor - UL TYPE 12

Fused disconnect switch: ☐

EMI/RFI control: Integrated filter designed to meet
EN61800-3

Harmonic suppression: Dual DC-link reactors (Equivalent: 5%
AC line reactor) Supporting IEEE
519-1992 requirements**

Cooling: Fan-cooled through back channel

Ambient temperature: -10°C to +45°C up to 1000 meters above
sea level (-14°F to +113°F, 3300 ft)

Analog I/O: Two current or voltage inputs,
one current output

Digital I/O: Six programmable inputs (two can
be configured as outputs)

Pulse inputs: Two programmable

Relay outputs: Two programmable

Communication port: 1-RS485, 1-USB

*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 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 harmonic
levels are exceeded Armstrong can also recommend additional harmonic mitigation
and the costs for such mitigation.

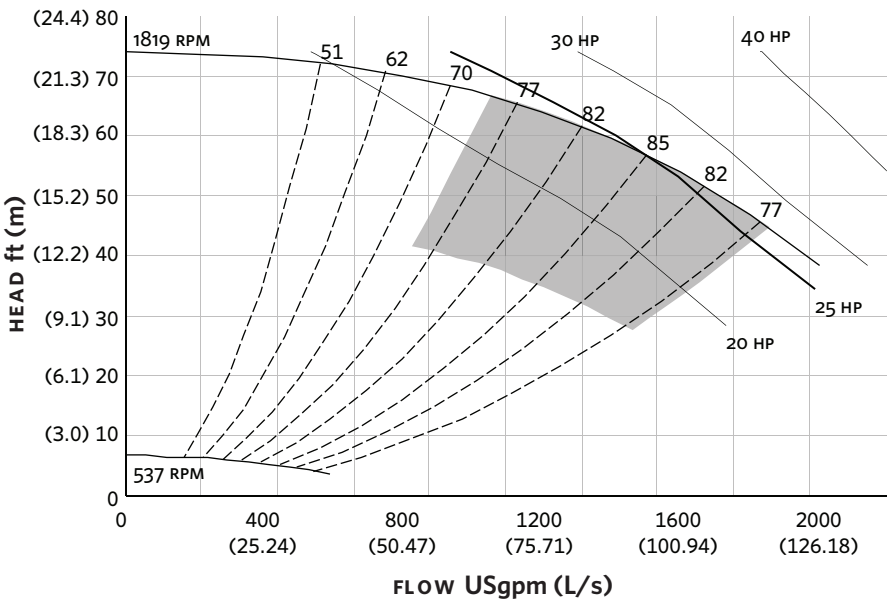
MECHANICAL SEAL DATA

Seal type: AB2 Stationary seat: Sintered silicon carbide

Secondary seal: Viton Rotating hardware: Stainless steel

Spring: Stainless steel

EXTENDED SPEED



Performance curves are for reference only.
Confirm current performance data with Armstrong ACE Online selection software.

DIMENSION DATA

INDOOR	
(UL TYPE 12/ODP)	
Frame size:	284TC
Size:	8×6×10
HP:	25
RPM:	1800
HA:	18.94 (481)
HB:	48.00 (1219)
HC:	41.95 (1065)
HD:	14.00 (356)
HE:	8.84 (225)
HF:	22.00 (559)
2HF:	44.00 (1118)
HG:	4.00 (102)
HI:	34.97 (888)
HL:	4.50 (114)
HV:	18.42 (468)
NAN1:	2.00 (51)
NAN2:	10.83 (275)
X:	12.00 (305)
Y:	4.00 (102)
Weight:	925 (419.5)

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

INDOOR

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