

# DESIGN ENVELOPE 4200H | END SUCTION BASE MOUNTED SPLIT-COUPLED | 0610-010.0 | SUBMITTAL

File No: 100,3312  
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: 10 RPM: 1200 Frame size: 256TC 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  $\pm 0.125"$  ( $\pm 3$  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

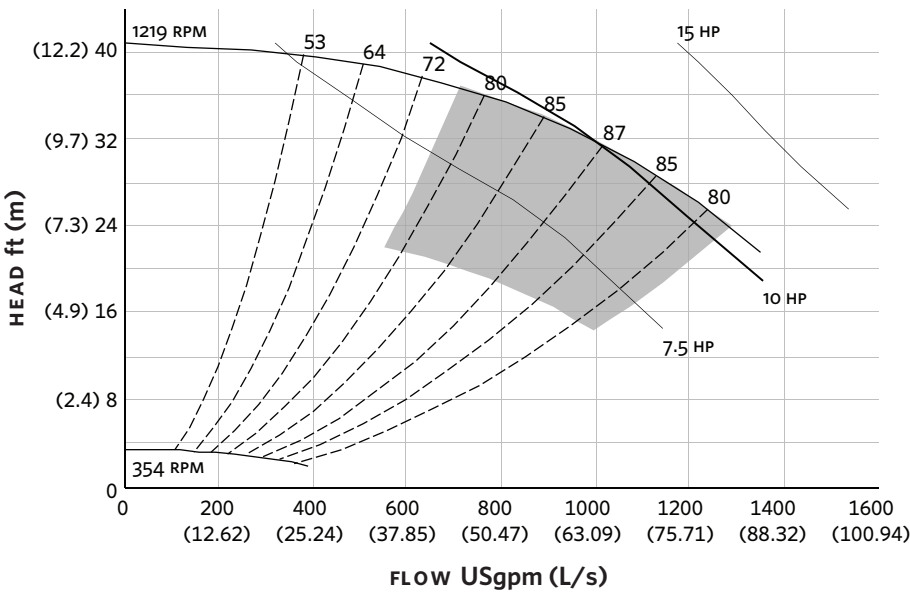
\*If minimum maintained system pressure is not known: Default to 40% of design head

\*\*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:	256TC
Size:	8×6×10
HP:	10
RPM:	1200
HA:	16.00 (406)
HB:	45.00 (1143)
HC:	38.36 (974)
HD:	13.00 (330)
HE:	7.37 (187)
HF:	20.50 (521)
2HF:	41.00 (1041)
HG:	3.00 (76)
HI:	29.69 (754)
HL:	4.50 (114)
HV:	15.42 (392)
NAN1:	2.00 (51)
NAN2:	10.10 (257)
X:	12.00 (305)
Y:	4.00 (102)
Weight:	798 (361.8)

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

INDOOR

