



DESIGN
ENVELOPE

Pump-in-a-Box
Express

SOLUTION OUTLINE

FILE NO: 43.12
DATE: DECEMBER 2015

SUPERSEDES: 43.12
DATE: MARCH 2015

MORE VALUE IN LESS TIME

Pump-in-a-Box offers superior value for new and replacement installations, with a unique combination of product design, cost savings and order fulfillment.

BENEFITS

Minimized downtime

Energy saving solutions

Easy sizing and selections

Reliable performance
and long service life

THE BETTER WAY TO SAVE THE DAY.

Every day brings new challenges, and along with them fresh opportunities to prove yourself. When your daily challenge includes a pump failure requiring quick replacement, Armstrong Pump-in-a-Box is the best choice to help you save the day.

KEY FEATURES

The Armstrong Pump-in-a-Box program makes it easy to order your replacement pump with user-friendly online selection software that lets you:

Compare and contrast performance of multiple pumps

Access all the technical information you need



AVAILABLE WITH
PUMP-IN-A-BOX EXPRESS:

ENERGY SAVINGS

UP TO **70%**

**DESIGN
ENVELOPE**

Armstrong's Design Envelope pumps integrate a perfectly matched Vertical In-Line pump, motor, and intelligent variable speed controller to create a complete pumping solution for HVAC systems. Design Envelope maximizes pumping efficiency by adjusting pump speed in response to system demand. Variable speed technology combined with sensorless control can reduce your energy costs by up to 70%.



51712UEGBNSXXXX

Quick
Envelope
4300 PUMP
— 0406-010-0
208/230V 60Hz/3

Selection



Fix part
number range

Ordering



Five step
ordering system

Delivery



Faster delivery

Pump in-a-Box selection methods

1 Based on head and flow

Step 1: Chose Curve number ① to ⑫ from head/flow chart

Step 2: Match the Pump-in-a-Box Curve number to the corresponding model in the table below

Step 3: Pick part number for your voltage

Example: 150 USgpm @23 ft → ⑥ and 460V → part number is 21414UEGBNSXXXX

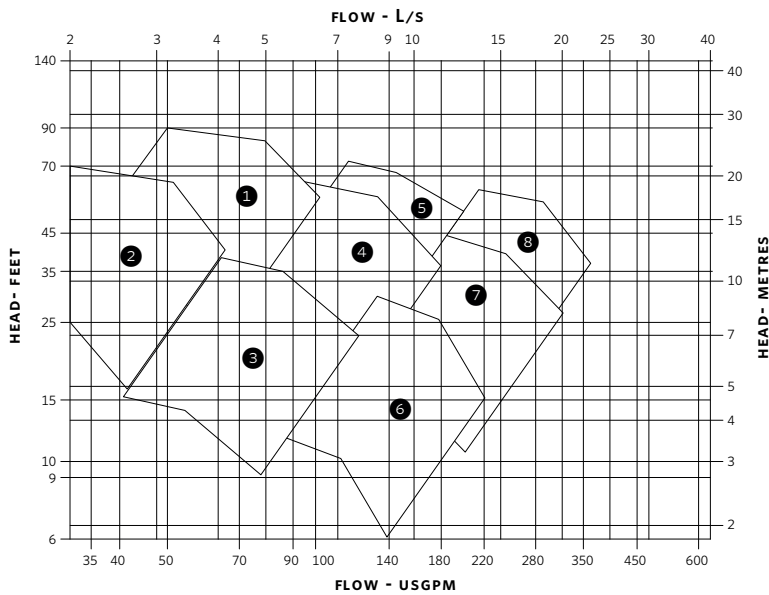
2 Based on pump size if head or flow unknown

Step 1: Match inlet/outlet size and HP to the pump you are replacing in the table below

Step 2: Pick part number for your voltage

Example: Existing pump is 3×2, 5 hp → for 3×3, 5 hp and 460V → part number is 23314UEGBNSXXXX

Design Envelope 4380 composite curves

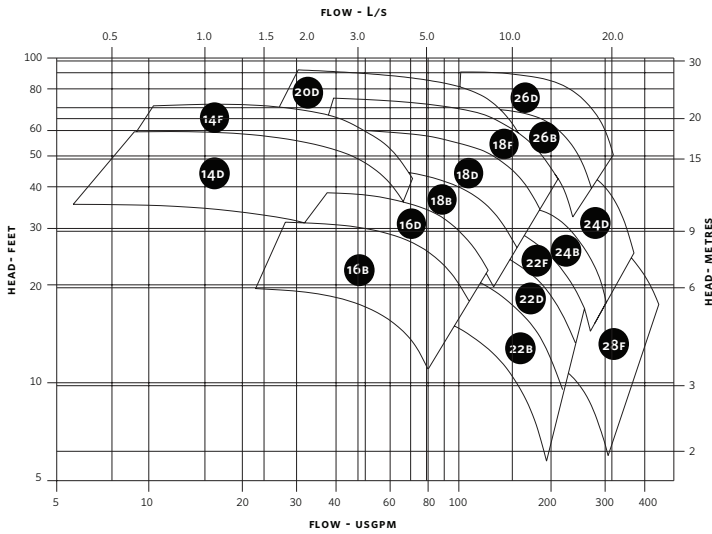


	DESIGN ENVELOPE MODEL	PART NUMBER			INLET & OUTLET ANSI 125	HP*
		208-230 VOLTS †	460 VOLTS	575 VOLTS		
①	4380 1506-003.0	20212UEGBNSXXXXX	20214UEGBNSXXXXX	20215UEGBNSXXXXX	1.5×1.5	③ 3
②	4380 1508-001.5	22412UEGBNSXXXXX	22414UEGBNSXXXXX	22415UEGBNSXXXXX	1.5×1.5	1.5
③	4380 0206-001.5	21012UEGBNSXXXXX	21014UEGBNSXXXXX	21015UEGBNSXXXXX	2×2	1.5
④	4380 0208-003.0	22812UEGBNSXXXXX	22814UEGBNSXXXXX	22815UEGBNSXXXXX	2×2	3
⑤	4380 0208-005.0	22912UEGBNSXXXXX	22914UEGBNSXXXXX	22915UEGBNSXXXXX	2×2	5
⑥	4380 0306-001.5	21412UEGBNSXXXXX	21414UEGBNSXXXXX	21415UEGBNSXXXXX	3×3	1.5
⑦	4380 0308-003.0	23212UEGBNSXXXXX	23214UEGBNSXXXXX	23215UEGBNSXXXXX	3×3	3
⑧	4380 0308-005.0	23312UEGBNSXXXXX	23314UEGBNSXXXXX	23315UEGBNSXXXXX	3×3	5

* Motors are 3-ph 4-pole with TEFC enclosure and NEMA premium [12.12] efficiency. Units marked ③ operate at 2-pole

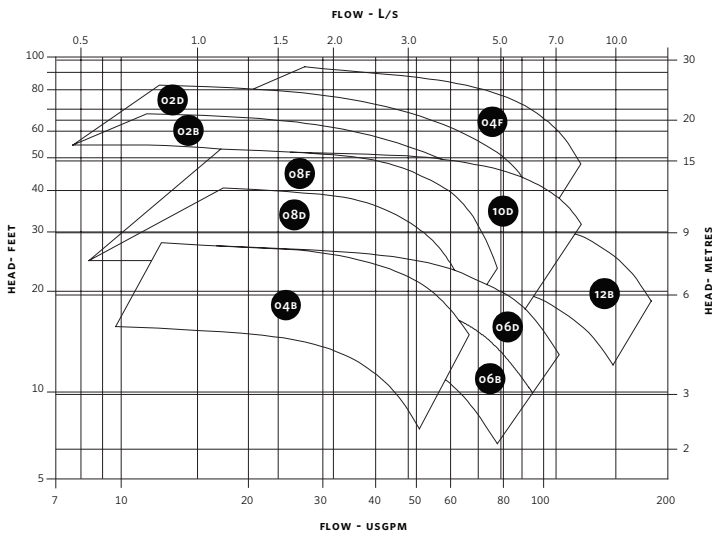
† For 1-phase 230VAC input power, available to 7.5hp, change the 5th syllable of the part number (now 2) to A

4380 composite curves



PUMP MODEL	PART NUMBER		INLET & OUTLET ANSI 125	HP	
	208-230/460 VOLTS	575 VOLTS			
14D	4380-1508F-1.5/4	4380008AI-083	4380008AI-068	1.5 x 1.5	1.5
14F	4380-1508F-2.0/4	4380008AL-083	4380008AL-068	1.5 x 1.5	2
16B	4380-2206F-1.0/4	4380006BG-083	4380006BG-068	2 x 2	1
16D	4380-2206F-1.5/4	4380006BI-083	4380006BI-068	2 x 2	1.5
18B	4380-2208F-2.0/4	4380008BL-083	4380008BL-068	2 x 2	2
18D	4380-2208F-3.0/4	4380008BO-083	4380008BO-068	2 x 2	3
18F	4380-2208F-5.0/4	4380008BR-083	4380008BR-068	2 x 2	5
20D	4380-2210F-5.0/4	4380010AR-083	4380010AR-068	2 x 2	5
22B	4380-3306F-1.0/4	4380006CG-083	4380006CG-068	3 x 3	1
22D	4380-3306F-1.5/4	4380006CI-083	4380006CI-068	3 x 3	1.5
22F	4380-3306F-2.0/4	4380006CL-083	4380006CL-068	3 x 3	2
24B	4380-3308F-3.0/4	4380008CO-083	4380008CO-068	3 x 3	3
24D	4380-3308F-5.0/4	4380008CR-083	4380008CR-068	3 x 3	5
26B	4380-3310F-5.0/4	4380010BR-083	4380010BR-068	3 x 3	5
26D	4380-3310F-7.5/4	4380010BV-083	4380010BV-068	3 x 3	7.5
28F	4380-4406F-3.0/4	4380006DO-083	4380006DO-068	4 x 4	3

4360 composite curves



PUMP MODEL	PART NUMBER		INLET & OUTLET (NPT)	HP	
	208-230/460 VOLTS	575 VOLTS			
02B	4360B-1205T-1.5/2	4360B00AH-083	4360B00AH-068	1.25 x 1.25	① 1.5
02D	4360B-1205T-2.0/2	4360B00AJ-083	4360B00AJ-068	1.25 x 1.25	②
04B	4360B-1505T-0.5/4	4360B00BC-062	(115/230V ONLY)	1.5 x 1.5	② 0.5
04F	4360B-1505T-3.0/2	4360B00BM-083	4360B00BM-068	1.5 x 1.5	③
06B	4360B-2205T-0.5/4	4360B00CC-062	(115/230V ONLY)	2 x 2	② 0.5
06D	4360B-2205T-0.7/4	4360B00CD-068	4360B00CD-083	2 x 2	0.75
08D	4360D-1507T-1.0/4	4360D00AG-083	4360D00AG-068	1.5 x 1.5	1
08F	4360D-1507T-1.5/4	4360D00AI-083	4360D00AI-068	1.5 x 1.5	1.5
10D	4360D-2207T-2.0/4	4360D00BL-083	4360D00BL-068	2 x 2	2
12B	4360D-3307T-1.5/4	4360D00CI-083	4360D00CI-068	3 x 3	1.5

Note: All motors are three-phase 1800 RPM except:

- ① 3600 RPM
- ② One-phase

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