

APV Vega V028 Binary-Drive Series 2

FULLY AUTOMATED PLATE HEAT EXCHANGER FOR SANITARY APPLICATIONS

DESCRIPTION

APV Vega V028 Binary-Drive Series 2 is a new hygienic plate heat exchanger designed specifically for high viscosity products. Longer run

time, rapid CIP and gentle product treatment combine to deliver significantly enhanced process efficiency and product output. The Vega V028 Binary-Drive Series 2 is a fully-automated frame which opens and closes at the touch of a button, no tools are required.

APPLICATION

The Vega V028 Binary-Drive Series 2 is used for heating, cooling and pasteurizing of products such as medium- to high-viscosity dairy products including yogurt, juices with short fibers, and non-Newtonian products such as ketchup.

FEATURES AND BENEFITS

The Vega V028 EasyFlow plate design is a further development of the renowned and widely used APV 4mm average gap "R5" heat transfer area. It is designed to reduce the effect of pressure increase due to fouling and provide for long run times while still maintaining high thermal efficiency. It is also acclaimed for its longer production time, gentle product treatment and reduced fouling.

Longer production time

The combination of a large, free-flow port area and a vastly reduced number of contact points on the plate reduces the risk of fouling by products containing fibers and/or particles.

Uniform product quality

The diagonal flow reduces the risk of dead areas on the plate and ensures uniform temperature-time treatment of the product. This ensures more uniform product quality and retention of natural aromas and flavors.

Shorter and more effective CIP

Up to 80% fewer contact points on the plate help to prevent fiber hang-up and facilitate irrigation during the cleaning cycle. Enhanced distribution of detergents on the plate means shorter and more efficient CIP.

Speedy and trouble-free turn around

Vega V028 plates employ the patented "Corner Interlock" plate alignment mechanism and APV EasyClip gaskets. Plate packs can be assembled rapidly without misalignment, and the glue-free design of APV EasyClip gaskets ensures quick refit and plate pack turnaround.

APV BINARY-DRIVE SERIES 2 FRAME -FULLY AUTOMATED AND 3A COMPLIANT

The new APV V028 Binary-Drive Series 2 frame developed for Vega V028 is designed for

hygienic applications requiring frequent and easy opening and closing with minimum operator involvement. A standard, manually opened frame is also available.

Optimized plate and gasket life

Intelligent PLC ensures proper opening and closing, thus preventing damage due to plate misalignment or over-compression.

Preventive maintenance

The simple user-interface facilitates easy operator input for changing plate quantity and compensating for gasket compression set when required. Total opening and closing time display enables optimum maintenance planning.

Reduced downtime and greater operator efficiency

Automatic operation and direct access to any plate in the pack means faster inspection and maintenance by eliminating the need for component removal, lifting of heavy objects and use of tools. Automation also enables operators and maintenance staff to carry out other tasks while the unit is opening or closing.





PRODUCT SPECIFICATIONS AND DIMENSIONS

Stainless steel 304/304L

3 length variants up to a

maximum of 496 plates'

on gasket material

57 m3/h (250 GPM) 3-A and ASME VIII compliant.

14 bar gauge (200 Psig)

Consists of one 5 hp, three-

phase motor and hydraulic pump,

one hydraulic motor, and one 20 gallon integral oil tank (Chevron FM ISO 32, food grade).

230/460 VAC 3-phase, 30/15

amp. Mating connector supplied

In the event of power failure, the

frame may be opened and closed

operated, hydraulic, 2-way valve Backlit LCD touch screen

Two power-driven 1-3/4" ACME

tie bars shrouded by top and

Optional stainless steel protective plate pack shroud Optional grids with up to 8 liquid

Optional solid divider plate

PLC controlled, solenoid

and bottom bar

cladding around ASME SA-516 grade 70 carbon steel core

No. 4 polish on head, follower

Hygienic 2.5" clamp, ACME bevel seat, CB I-line and plain stub end for welding

Finish: 150 grit finish meeting

Up to 177°C (350°F) depending

and end support. Glass blast top

APV VEGA V028 EASYFLOW PLATES AND GASKETS					
Plate materials:	AISI 316, Titanium and other alloys				
Gasket materials:	Nitrile, EPDM and FKM				

APV VEGA V028 BINARY-DRIVE SERIES 2 FRAME

3A.

Material:

Finish:

Frame size:

Connections:

Max. design

pressure:

Approvals:

Power pack:

Manual closing

Control system:

User interface:

system:

Tie bars:

Accessories:

Max. temperature:

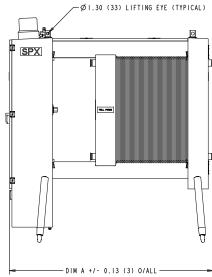
Maximum flow rate:

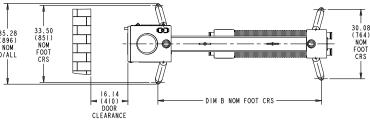
Power requirements:

Dimensions = in (mm)

15 75

	0 0 0 17.9 + (455 7.5 (700 MINIMUM	09 80) 40,79 (1036) 37,44 +/-2 (951) +/-50	+/- 2 (2488 +/- 50) O/ALL HEIGHT	
35.28 (896) NOM O/ALL	33.50 (851) NOM FOOT CRS			 ←œ> ¤ ¤





FRAME SIZE	FRAME WEIGHT IN Ibs	MEASUREMENTS IN in (mm)		
SIZE	(kg)	A	в	
1	2615	89.05	71.38	
	(1,186)	(2262)	(1813)	
2	2747	128.42	110.75	
	(1,246)	(3262)	(2813)	
3	2881	167.79	150.12	
	(1,307)	(4262)	(3813)	

*Max. plate capacity based on 0.5 mm plate thickness A grid reduces the capacity by 17 plates.

manually

monitor

bottom bar

connections

Gasketed AISI 316 plate weight: 1.86 kg (4.1 lb)



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