

NR5 - Heat Exchanger Plate

The NR5 is a 4" ported, 0.6 mm plate offering improved thermal performance over the legacy R5 plate. The NR5 plate fits in existing R5-type frames without modification, yet allows up to 22% greater plate capacity. It is the next-generation plate in the R5 family, offering higher regeneration, increased processing capacity, and excellent, gentle heat treatment along the entire product path.

KEY FEATURES

- A Port Strength:** Careful attention to detail avoids weak areas that can cause plate deformation and shorten plate life. Reinforced inlet area provides a rigid surface for secure sealing.
- B Plate Interlock:** NR5 plate interlock system provides safe and reliable alignment of plates during assembly, reducing the risk of plate damage and incorrect position. Positioned at all four corners, the NR5 plate interlock assures proper assembly and saves time.
- C EasyClip®:** EasyClip® allows you to quickly and securely install and remove gaskets for increased serviceability and gasket longevity. A robust design, EasyClip® allows gaskets to be interlocked between plates providing trouble-free installation.
- D Distribution:** The NR5 inlet design provides a homogenous and efficient distribution of product across the plate and into each channel avoiding low turbulence flat areas.
- E Heat Transfer:** Superior hygienic plate design provides maximum turbulence for increased efficiency and longer run times.

TYPICAL APPLICATIONS

- Milk pasteurization
- UHT processing
- Cream coolers
- Cheese sauce cooling
- Egg processing
- Sauces, gravies
- Fruit juice pasteurizing
- Sport drink hot and ambient fill
- High pulp juice
- Soft drink processing
- Beer pasteurizing
- Wort cooling
- Personal care products

FEATURE	ADVANTAGES	BENEFITS
Efficient 0.6 mm plate	20% more plate capacity compared to legacy R5	Greater energy savings
EasyClip® gasket system	Reduced plate/gasket mis-alignment	Better sealing and gasket life
Diagonal flow path	Uniform heat treatment	Produces higher quality product
Hygienic port radius	Greater strength and cleanability	Lower pressure and more responsive to CIP
CornerLock®	4-point uniform plate alignment	Greater plate life and seal integrity



PRODUCT SPECIFICATIONS

WIDTH IN (MM)	HEIGHT IN (MM)	THICKNESS IN (MM)	PORT DIAMETER IN (MM)	SURFACE AREA FT ² (M ²)
16.54 (420)	61.5 (1,563)	0.5	4 (101.6)	5.83 (0.542)
		0.6 (Standard)		
		0.7		
		0.8		

MATERIALS

PLATE MATERIAL OPTIONS	GASKET OPTIONS	
	GLUED	CLIPPED
Alloy 27-7MO	EPDM RC (Paratemp)	EPDM RC (Paratemp)
Alloy C22	EPDM per. (FDA)	EPDM per. (FDA)
Stainless Steel AISI 316L	FKM (Steam) (Paradur)	FKM (Steam) (Paradur)
Stainless Steel AISI 316L BA	FKM GF (Paraflo)	FKM GF (Paraflo)
Titanium ASTM B265 Gr. 1	NBR hyd. (Parator)	NBR hyd. (Parator)
	NBR per. (FDA)	NBR per. (FDA)

FRAMES

FRAME	WIDTH IN (MM)	HEIGHT IN (MM)	CONNECTION DIAMETER IN (MM)	DESIGN
M-16	22.2 (563)	77 (1,956)	4 (101.6)	Industrial
Q-15 SER 2 (MANUAL)	40.1 (1,019)	110 (2,794)		Sanitary
Q-15 SER 2 230V	40.1 (1,019)	115.2 (2,927)		Sanitary
Q-15 SER 2 460V	40.1 (1,019)	115.2 (2,927)		Sanitary
R-15 (LOW LEG)	29.1 (740)	88.7 (2,253)		Sanitary
R-15 (MEDIUM LEG)	32.8 (833)	97.6 (2,480)		Sanitary
R-15 (TALL LEG)	37.8 (960)	105.2 (2,671)		Sanitary
R51T	36 (914)	106 (2,692)		Sanitary
R56S	21.9 (556)	83.4 (2,119)		Sanitary
R56SH	21.9 (556)	97.8 (2,483)		Sanitary

Based in Charlotte, North Carolina, SPX FLOW, Inc. (NYSE: FLOW) is a multi-industry manufacturing leader. For more information, please visit www.spxflow.com

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