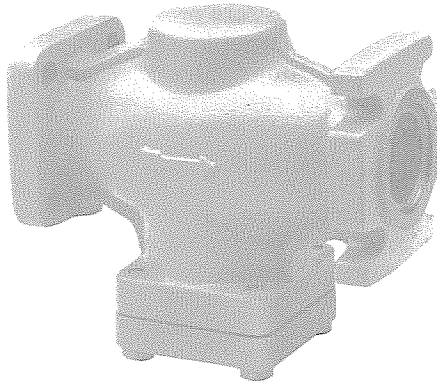


**HANSEN TECHNOLOGIES CORPORATION**



2" Strainer: ST200

**INTRODUCTION**

These rugged, refrigerant strainers (filters) are designed to remove foreign materials, like dirt and weld slag, from refrigeration systems. Strainers help prevent damage to valves and other components, reducing costly service and downtime. Strainers are usually close-coupled to solenoid valves, pressure regulators and other flanged valves.

**ORDERING INFORMATION**

CAT NO.	FOR VALVE SIZE inch (mm)	FLANGE STYLE AND SIZES CONNECTIONS AVAILABLE		
		FPT, SW, WN		ODS
		STD	ALSO	STD
ST050	1/2 (13)	1/2	1/4	5/8
	5/32 (4)			
ST100	3/4 (20)	3/4	1, 1 1/4	7/8
	1 (25)	1	3/4, 1 1/4	1 1/8
	1 1/4 (32)	1 1/4	3/4, 1	1 3/8
ST200	1 1/2 (40)	1 1/2	2	1 5/8
	2 (50)	2	1 1/2	2 1/8
ST250	2 1/2 (65)	2 1/2	3	2 5/8
ST300	3 (80)	3	-	3 1/8
ST400	4 (100)	4	-	4 1/8
STW500	5 (125)	5 WN ‡	-	-
STW600	6 (150)	6 WN ‡	-	-

‡Integral butt weld end only

**OPTIONS**

**Strainer Basket:** heavy duty, available for ST100.

**Perforated Metal Strainer:** necessary for suction side port applications (1 1/2" through 3"); contact factory.

**Cloth Bags:** available up to 4" for system start-up.

**Filter System:** An extra-fine filter system with double the cleansing capacity of standard strainers is available. See bulletin T782 for more information.

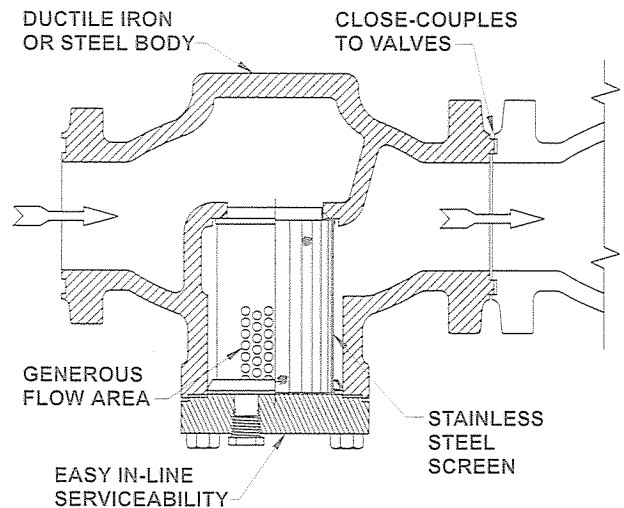
**TO ORDER:** Specify catalog number and if strainer will be close-coupled to valve or installed as a separate unit. If it will be a separate unit, also specify flange connection style and size.

**Specifications, Applications, Service Instructions & Parts**

**ST STRAINERS (FILTERS)**

**1/2" thru 6"  
(13 mm thru 150 mm)  
for refrigerants**

**KEY FEATURES**



**MATERIAL SPECIFICATIONS**

**Body:** 1/2" through 4": Ductile iron, ASTM A536, (nodular iron GGG-40), 65,000 psi tensile  
 5" and 6": Cast steel, ASTM A352

**Bottom Cover:** 1/2": Steel, ASTM 108  
 3/4" through 1 1/4": Ductile iron, ASTM A536  
 1 1/2" through 6": Steel, ASTM A36

**Drain Plug:** Standard on 3/4" through 1 1/4" (1/4" NPT),  
 1 1/2" through 4" (1/2" NPT),  
 5" & 6" (3/4" NPT)

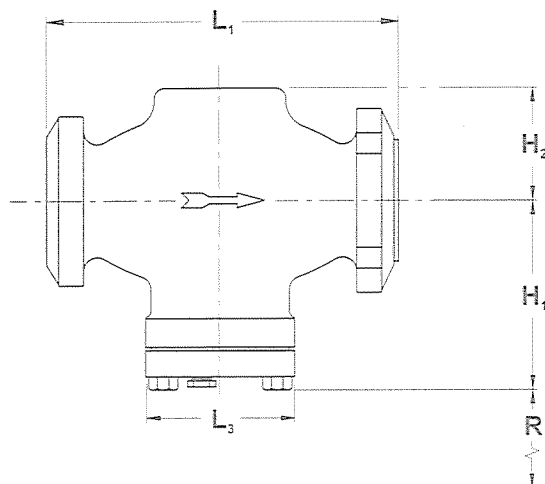
**Screen:** Stainless steel, 60 mesh (233 micron rating)  
 ST050 has 100 mesh (150 micron rating)

**Gaskets:** Nonasbestos, graphite composite

**Safe Working Pressure:** 400 psig (27 bar)

**Operating Temperature:** -60°F to +240°F (-50 to +115°C)

## INSTALLATION DIMENSIONS inches (mm)



CAT NO.	H <sub>1</sub>	H <sub>2</sub>	L <sub>1</sub>	L <sub>3</sub>	R	W	Screen Area in <sup>2</sup> (cm <sup>2</sup> )
ST050	3.32 (84)	0.68 (17)	2.03 (52)	1.38 (35)	3.00 (76)	2.03 (52)	5.40 (35)
ST100	5.15 (130)	1.56 (40)	3.75 (95)	4.59 (117)	3.00 (76)	4.59 (117)	63.00 (407)
ST200	5.34 (136)	2.79 (71)	9.88 (251)	4.25 (108)	4.00 (102)	4.58 (116)	84.50 (545)
ST250	6.10 (155)	3.62 (92)	9.88 (251)	5.38 (137)	4.50 (114)	5.62 (143)	134.50 (868)
ST300	6.56 (167)	4.06 (103)	12.25 (311)	5.38 (137)	4.75 (121)	6.50 (165)	134.50 (868)
ST400	7.38 (187)	4.73 (120)	14.12 (359)	6.75 (171)	5.75 (146)	8.06 (205)	219.00 (1413)
STW500	14.34 (364)	6.40 (163)	20.40 (518)	12.75 (324)	8.00 (203)	12.75 (324)	536.50 (3462)
STW600	14.34 (364)	6.40 (163)	20.40 (518)	12.75 (324)	8.00 (203)	12.75 (324)	536.50 (3462)

W = Maximum width of strainer body

R = Clearance for screen assembly removal

## SERVICE AND MAINTENANCE

Repeated inspection of strainers during system start-up or repairs is essential for optimum benefit. Before opening a strainer or any other component, be sure it is isolated from the system, and all refrigerant is removed (pumped out to zero pressure). The 3/4" through 6" strainers have a drain plug in the bottom cover for connecting a drain valve and hose for proper and safe removal of any trapped liquid refrigerant.

**Screen Removal and Cleaning:** Be careful to avoid any refrigerant which may still be in the strainer. For the 1/2" strainer, slowly remove the hex bottom cap, then remove the screen assembly. For 3/4" through 6" strainers, loosen the bottom cover bolts and bottom cover, check for refrigerant presence, and then remove the bolts, cover, and screen assembly. Clean the screen assembly with a good solvent, blow dry, and inspect. If the screen is damaged or sediment cannot be removed from the screen, replace the screen assembly. Carefully align the screen assembly in the center of the strainer body and replace the bottom cover. Pressure test for leaks before returning to service.

## CAUTION

Hansen strainers are for refrigeration systems only. Read these instructions and related safety precautions completely before selecting, using, or servicing these strainers. Only knowledgeable, trained refrigeration mechanics should install, operate, or service these strainers. Stated temperature and pressure limits should not be exceeded. The bottom cover should not be removed from strainers unless the system has been evacuated to zero pressure. See also Safety Precautions in the current List Price Bulletin and the Safety Precautions Sheet supplied with the product. Escaping refrigerant can cause injury, particularly to the eyes and lungs.

## WARRANTY

Hansen strainers and valves are guaranteed against defective materials or workmanship for one year F.O.B. our plant. No consequential damages or field labor is included.

## REPLACEMENT SCREEN KITS

DESCRIPTION	QTY	PART NO.
<b>Screen Kit for ST050</b> Consists of:		<b>78-1001</b>
Screen Assembly	1	78-0005
Bottom Cap Gasket	1	78-0016
<b>Screen Kit for ST100 (standard)</b> Consists of:		<b>78-1003</b>
Screen Assembly	1	78-0028
Bottom Cover Gasket	1	78-0026
<b>Screen Kit for ST100 (optional, heavy duty)</b> Consists of:		<b>78-1013</b>
Screen Assembly	1	78-0135
Bottom Cover Gasket	1	78-0026
<b>Screen Kit for ST200</b> Consists of:		<b>78-1005</b>
Screen Assembly	1	78-0052
Bottom Cover Gasket	1	75-0196
<b>Screen Kit for ST250</b> Consists of:		<b>78-1006</b>
Screen Assembly	1	78-0040
Bottom Cover Gasket	1	75-0128
<b>Screen Kit for ST300</b> Consists of:		<b>78-1007</b>
Screen Assembly	1	78-0054
Bottom Cover Gasket	1	75-0128
<b>Screen Kit for ST400</b> Consists of:		<b>78-1008</b>
Screen Assembly	1	78-0057
Bottom Cover Gasket	1	75-0234
<b>Screen Kit for STW500 &amp; STW600</b>		<b>78-1009</b>
Screen Assembly	1	78-0071
Bottom Cover O-Ring, Inner	1	75-0605
Bottom Cover O-Ring, Outer	1	75-0606

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