Dry All®

Full Range of HVAC&R Line Products

UL US LISTED

LIQUID REFRIGERANT RECEIVER (VERTICAL)

Accumulator Charge Compensators

Dry All
Full Range of HVAC&R Line Products

Introduction

In a refrigeration system, the liquid refrigerant receiver has multiple uses. When a refrigeration system is operating normally, it serves a reservoir for the refrigerant, guarantees that a reserve amount of refrigerant is available during time of high load demands, and offers a location to store the refrigerant charge during either automatic or service pump downs. The pump down of the refrigeration system can be done by storing the liquid refrigerant in the receiver provided they are sized correctly. This is extremely desired to allow a system to be serviced or repaired with ease. It collects the condensed liquid refrigerant leaving from the condenser outlet and feeds liquid to the liquid line of the system.

Receivers internal volume allows it to store the liquid refrigerant. Hence the refrigeration system can respond to varying heat loads by varying the refrigerant flow rate. For this a thermostatic expansion valve is used in combination with receiver. Dry All liquid refrigerant receivers are of two types vertical and horizontal.

Features

- Dry All, manufacturers wide range of liquid receivers in both vertical and horizontal configurations. Vertical are mounting flange type liquid receivers and also mounting stud type liquid receivers.
- Dry All specially designed to achieve maximum refrigerant flow rate and minimum pressure drop.
- Vertical deep draw type liquid receivers are also available for special purpose cases. Receivers with NPT connection are also available on request.

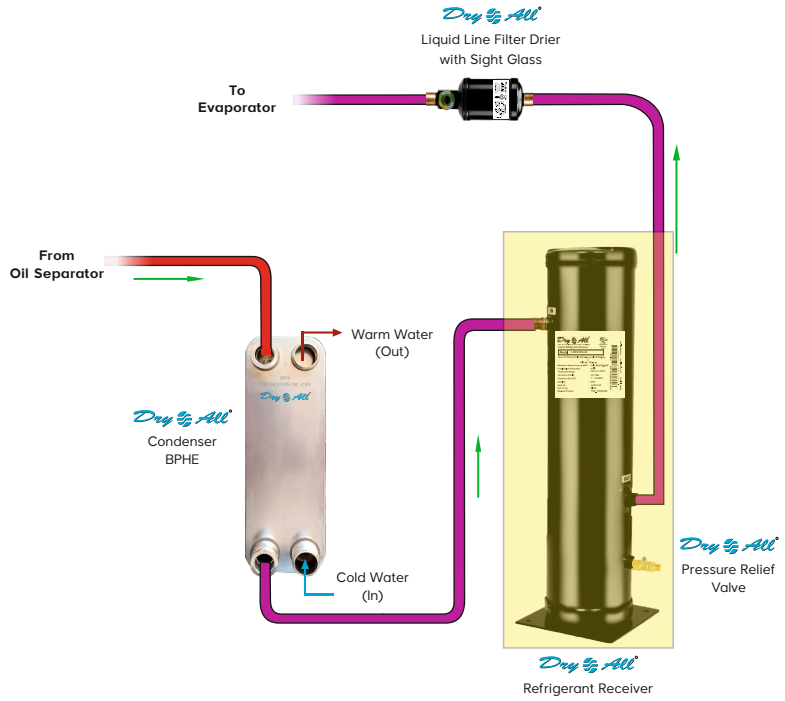
Applications

- Liquid refrigerant receiver is installed in refrigeration and air conditioning system.
- It is installed between condenser and expansion device to supply continuous flow to expansion device.
- It also stores refrigerant charge during service of system.

Technical Spefications

1. Maximum working pressure= 450 psig
2. Design temperature = -10°C to 100°C
3. Compatible with HFC's and HCFC's and their associated oils. Designed for maximum flow of refrigerant and minimum pressure drop

Heat Pump Refrigeration Cycle



Mounting

1. Flange type: In big installations, stand-alone receivers are mounted using this method because it offers the maximum stability.
2. Stud type: The installation team can attach the receiver to a plinth by using the stud that is provided. This approach is frequently employed when the receiver is a component of a pack of several compressors.

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IMAGE, DRAWINGS & MODELS AVAILABLE

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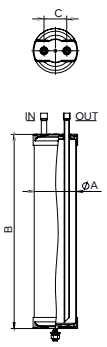
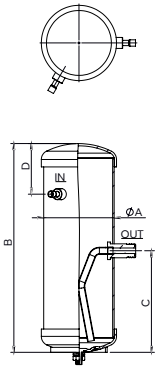
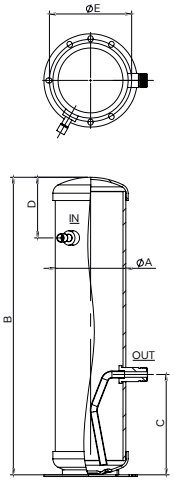
DIMENSIONAL DATA



Drawing - 1



Drawing - 2



Drawing - 3

No.	Model No.	Internal Volume Capacity (Liters)*	Pump Down Capacity (KG)	Connection		ØA		Dimension								Mounting Option	Refer Drawing No.	Liquid Indicator	Inbuilt Fusible Plug
				Inlet	Outlet			B		C		D		E					
						mm	inch	mm	inch	mm	inch	mm	inch	mm	inch				
UL LISTED																			
1	LRRV-3350-3SX3S-H	1.4	1.4	3/8" ODF (COPPER)	3/8" ODF (COPPER)	76.2	3	350	13.78	41	1.62	NA	NA	NA	NA	M8X1.25 Bolt & Nut	1	Not Applicable	Not Applicable
2	LRRV-3482-3SX3S-H	2.0	1.9					482	18.87	41	1.62	NA	NA						
3	LRRV-5296-3SX5R-H	3.3	2.7	1/2" ODF (COPPER)	1"-14 UNS*	127	5	296	11.65	191	7.63	83	3.26	NA	NA	M10 X 1.5 Bolt & Nut	2		Yes
4	LRRV-5376-4SX5R-H	4.3	3.5					376	14.81			91	3.58						
5	LRRV-5456-4SX5R-H	5.2	4.3					456	17.96	183	7.20	86	3.38	150	5.90	Round Flange	3		
6	LRRV-5536-4SX5R-H	6.1	5.0					536	21.11	180	7.08	109	4.17						
7	LRRV-5566-5SX5R-H	6.4	5.3	5/8" ODF (COPPER)				566	22.28	183	7.20	111	4.37						
8	LRRV-6465-4SX5R-H	7.4	6.1	1/2" ODF (COPPER)		152.4	6	465	18.31	157	6.18	93	3.66	172	6.77				
9	LRRV-6526-5SX5R-H	8.4	6.9	5/8" ODF (COPPER)				526	20.71	155	6.10	109	4.17						
10	LRRV-6587-5SX5R-H	9.5	7.7					587	23.12	160	6.29	117	4.60						
11	LRRV-6648-5SX5R-H	10.4	8.6					648	25.52			128	5.03						
12	LRRV-6709-5SX5R-H	11.4	9.4					709	27.92			139	5.47						
13	LRRV-6770-7SX7R-H	12.1	10	7/8"ODF (COPPER)	1-1/4"-12 UNF*			770	30.32	179	7.04	145	5.70						

Note:

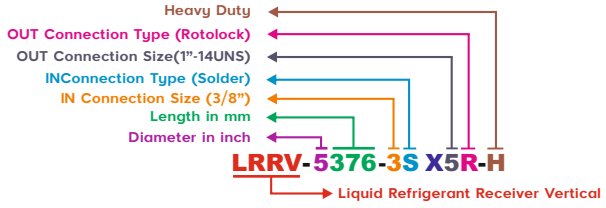
- MWP for above Receivers with UL is 450 Psig. Can be custom built-with MWP as 653 Psig
- Fusible relief temperature = 221°C
- [*] Denotes Connections are of Steel
- Rotolock valve has to be ordered separately.

Note :

- Maximum working pressure: 600 psig
- Design temperature: -10°C to 100°C
- *Capacity mentioned as per ARI-495 @32°C
- [*] Denotes Connections are of Steel
- Rotolock valve has to be ordered separately.

Rotolock	Sizes Available
1 - 14 UNS	3/8", 1/2", 5/8", 7/8"
1-1/4"-12 UNF	5/8", 3/4", 7/8", 1 1/8"

Nomenclature



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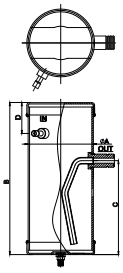
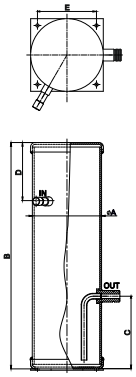
IMAGE, DRAWINGS & MODELS AVAILABLE

DIMENSIONAL DATA

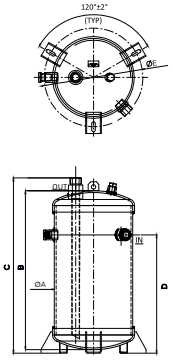
Drawing - 1



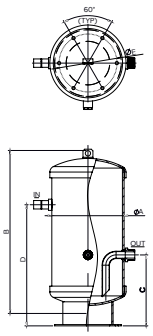
Drawing - 2



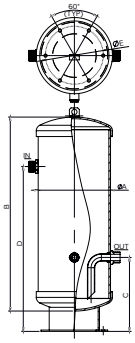
Drawing - 3



Drawing - 4



Drawing - 5



Drawing - 6

Sr. No.	Model No.	Internal Volume Capacity (Liters)*	Pump Down Capacity (KG)	Connection		ØA		Dimension								Mounting Option	Refer Drawing No.	Liquid Indicator	Inbuilt Fusible Plug
				Inlet	Outlet			B		C		D		E					
						mm	inch	mm	inch	mm	inch	mm	inch	mm	inch				
NON-UL LISTED																			
1	LRRV-3350-3SX3S	1.4	1.4	3/8" ODF (COPPER)	3/8" ODF (COPPER)	76.2	3	350	13.78	41	1.62	NA	NA	NA	NA	M8 X1.25 Bolt & Nut	1	Not Applicable	Not Applicable
2	LRRV-3482-3SX3S	2.0	1.9					482	18.87	41	1.62	NA	NA						
3	LRRV-5296-3SX5R	2.9	2.3		1"-14 UNS*	127	5	296	11.65	183	7.20	60	2.36	NA	NA	M10 X 1.5 Bolt & Nut	2		Yes
4	LRRV-5376-4SX5R	4.2	3.4	1/2" ODF (COPPER)				376	14.81			74	2.91						
5	LRRV-5456-4SX5R	4.65	3.75					456	17.96			86	3.38	130	5.12	Square Flange	3		
6	LRRV-5536-4SX5R	6.1	5.0					536	21.11			106	4.17						
7	LRRV-5566-5SX5R	6.4	5.3	5/8" ODF (COPPER)				566	22.28			111	4.37						
8	LRRV-6465-4SX5R	7	5.7	1/2" ODF (COPPER)		152.4	6	465	18.31	160	6.29	93	3.66						
9	LRRV-6526-5SX5R	7.9	6.4	5/8" ODF (COPPER)				526	20.71			125	4.92						
10	LRRV-6587-5SX5R	9	7.7					587	23.12			125	4.92						
11	LRRV-6648-5SX5R	9.93	8.6					648	25.52			128	5.03						
12	LRRV-6709-5SX5R	11.2	9.4					709	27.92			139	5.47						
13	LRRV-6770-7SX7R	12.1	10	7/8"ODF (COPPER)	1-1/4"-12 UNF*			770	30.32	181	7.12	129	5.07						
14	LRRV-8446-7R(B)	15	10.3	1-1/4" 12 UNF	1-1/4" 12 UNF	219	8	446	17.56	492	19.37	332	13.07	276.7	10.89	Bracket	4	Available	No
15	LRRV-8446-7SX5R(F)	15	10.3	7/8" ODF (COPPER)	1"-14 UNS*			446	17.56	224	8.82	357	14.06	175	6.88	Round Flange	5		
16	LRRV-8530-7RX7R(F)	18	13.2	1-1/4"-12 UNF*	1-1/4"-12 UNF*			530	20.87			441	19.09				6		
17	LRRV-8588-7RX7R(F)	19.9	15.1					588	23.15			499	19.65						
18	LRRV-8732-7RX7R(F)	25	20.4					732	28.82			643	25.31						

Note :

- Maximum working pressure: 600 psig
- Design temperature: -10°C to 100°C
- *Capacity mentioned as per ARI-495 @32°C
- [*] Denotes Connections are of Steel
- Rotolock valve has to be ordered separately.

Note:

- **(-H) denotes UL-Listed Receivers while without (-H) denotes non UL-Listed Receivers.**
- MWP for above Receivers with UL is 450 Psig. Can be custom built with MWP as 653 Psig
- Fusible relief temperature = 221°C
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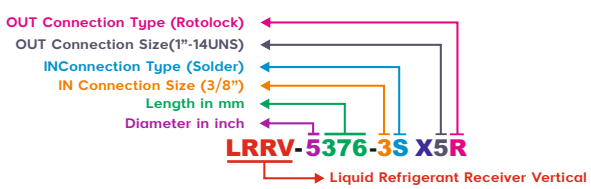
1-1/4"-12 UNF	5/8", 3/4", 7/8", 1 1/8"

Nomenclature



Check Hologram for Genuine Product

Manufactured by:

Dry All®

Full Range of HVAC&R Line Products

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