



DAS HERZ DER FRISCHE

PRESSURE VESSELS

LIQUID RECEIVERS

REGISTERED WITH WORKSAFE/WORKCOVER
RE-DESIGNED FOR HFC CLASSIFICATION A1 REFRIGERANTS
RUST RESISTANT PAINT TREATMENT

Liquid
Receivers



BA-603-2 AUS



Refrigerant Receivers

Characteristics

- BITZER Refrigerant Receivers are designed to accommodate a wide range of applications.
- All Receivers are registered with Worksafe / Workcover
- Valve connections and liquid pick-up tubes have been specifically re-designed to suit HFC Classification A1 Refrigerants (according to AS/NZS ISO 817:2016)
- For specific system designs, special receiver vessels can be manufactured on request.

Technical Data

BITZER Refrigerant Receivers are supplied c/w –

- Rotalock sight glasses c/w level indicator

Vertical vessels - 3 s/glasses

Horizontal vessels - 2 s/glasses

Vertical Receivers

Item No.	Vertical Liquid Receiver Model No.	Pump Down Capacity @ 80% 25°C			Shell Diameter Ø	O/A Height	G PCD	H Mtg Holes	Inlet Valve Ø	Outlet Valve Ø	E BSP Relief	F NPT Alarm
		R404a	R134a	R407F								
B31-001	RV107	42.9	52.0	48.3	273	1145	280	16	1-3/8" RL	1-3/8" RL	1/2"	1/2"
B31-002	RV143	55.7	67.5	62.7	273	1445	280		1-3/8"RL	1-3/8"RL		
B31-003	RV162	62.5	75.9	70.4	324	1156	333		1-3/8" RL	1-3/8" RL		
B31-003A									1-5/8" FF	1-5/8" FF		
B31-003B									2-1/8" FF	2-1/8" FF		
B31-004	RV221	76.8	93.1	86.5	356	1187	333		1-3/8" RL	1-3/8" RL		
B31-004A									2-1/8" FF	2-1/8" FF		
B31-004B									1-5/8" FF	1-5/8" FF		
B31-135PV	RV-400X917-A-33 (previously RV287)	99.0	120.1	111.5	406	1150	350		1-5/8" FF	1-5/8" FF		
B31-136PV	RV-400X1345-A-33 (previously RV377)	126.7	153.7	142.8	406	1612	350		2-1/8" FF	1-5/8" FF		
									2-1/8" FF	1-5/8" FF		
									2-1/8" FF	2-1/8" FF		
									2-5/8" FF	2-1/8" FF		
									2-5/8" FF	2-5/8" FF		
B31-138PV	RV-400X1635-A-33 (previously RV491)	170.7	206.2	191.5	406	1902	350		1-5/8" FF	1-5/8" FF		
B31-011 B31-011A B31-011B B31-011F	RV598	206.3	250.3	232.4	457	1851	415		2-1/8" FF	1-5/8" FF		
									2-1/8" FF	2-1/8" FF		
									3-1/8" FF	3-1/8" FF		
									2-5/8" FF	2-1/8" FF		

NOTES:

RL means Rotalock Valve c/w 1 x Ø1/4"MSAE service port
FF means Fully Flanged Valve

Including 3 x Rotalock Sight Glasses c/w Indicator ball.

2 x 1/2" NPT Sockets for Low Level Alarm Probe.

All Dimensions in mm +/- 3.0mm

Horizontal Receivers

Item No.	Horizontal Liquid Receiver Model No.	Pump Down Capacity @ 80% 25°C			Shell Diameter Ø	O/A Length	O/A Depth	O/A Height	H Mtg Holes	Inlet Valve Ø	Outlet Valve Ø	E BSP Relief	F NPT Alarm	Qty. Sight Glasses
		R404a	R134a	R407F										
B30-012	RH107	42.9	52.0	48.3	273	1074	420	441	16	1-3/8" RL	1-3/8" RL	1/2"	1/2"	2
B30-013	RH143	55.7	67.5	62.7	273	1374	445	418		1-3/8"RL	1-3/8"RL			
B30-014	RH162	62.5	75.9	70.4	324	1102	490	471		1-3/8" RL	1-3/8" RL			
B30-015	RH221	76.8	93.1	86.5	356	1144	493	548		1-3/8" RL	1-3/8" RL			
B30-016	RH287	99.0	120.1	111.5	356	1450	604	622		1-3/8" RL	1-3/8" RL			
B30-016C										1-5/8" FF	1-5/8" FF			
B30-016E										2-5/8" FF	2-1/8" FF			
B30-017	RH377	126.7	153.7	142.8	406	1473	639	629		1-5/8" FF	1-5/8" FF			3
B30-017B										2-1/8" FF	2-1/8" FF			
B30-018	RH491	170.7	206.2	191.5	457	1510	705	708		1-5/8" FF	1-5/8" FF			2
B30-018B										2-1/8" FF	2-1/8" FF			
B30-019	RH598	206.3	250.3	232.4	457	1810	703	691		1-5/8" FF	1-5/8" FF			
B30-019A										2-1/8" FF	2-1/8" FF			

NOTES:

RL means Rotalock Valve c/w 1 x Ø1/4"MSAE service port.
FF means Fully Flanged Valve

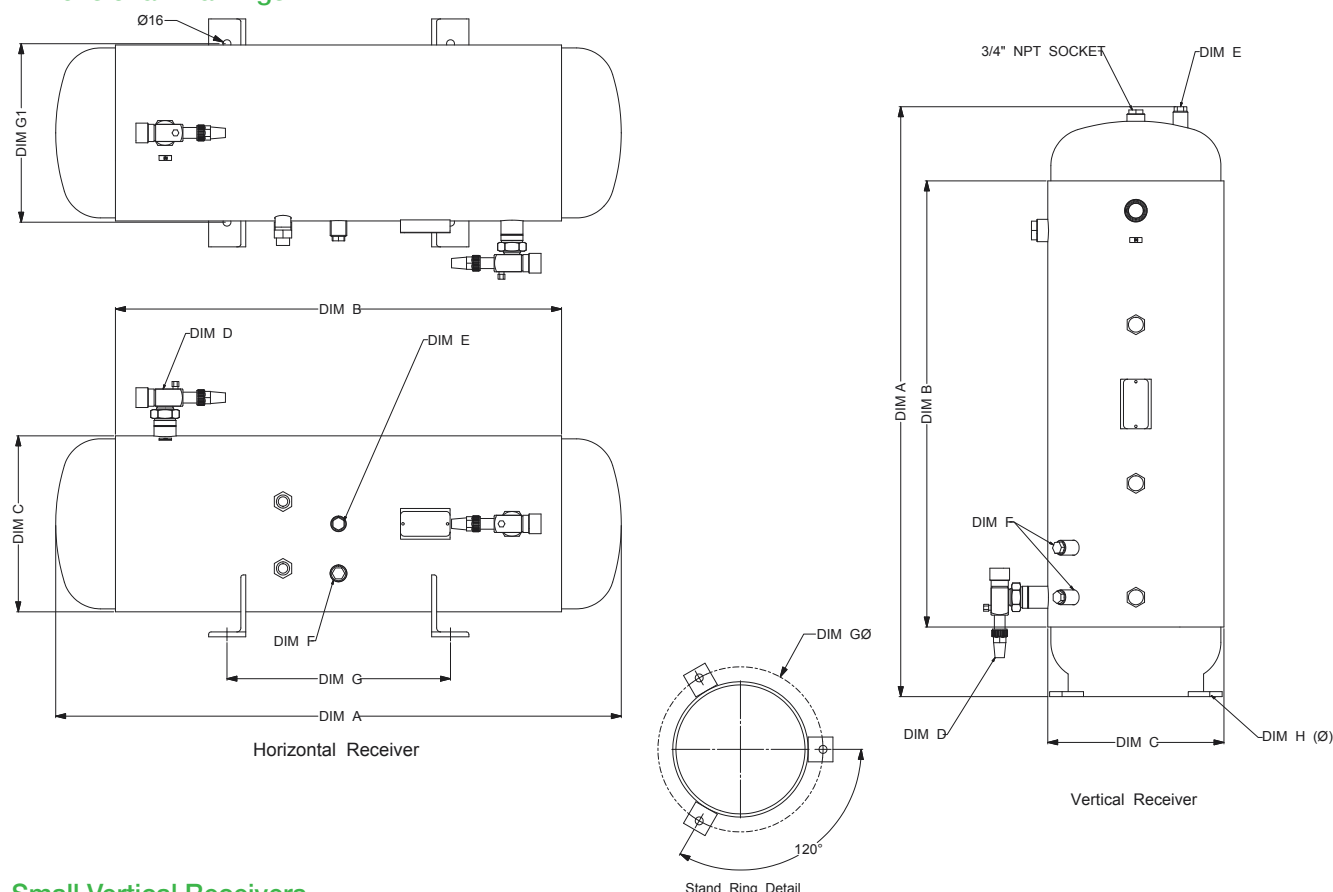
Including Rotalock Sight Glasses c/w Indicator ball.

1 1/2" NPT Socket for Low Level Alarm Probe.

All Dimensions in mm +/- 3.0mm

For mounting feet bolt hole centres contact BITZER.

Dimensional Drawings



Small Vertical Receivers

Item No.	Vertical Liquid Receiver Model No.	Pump Down Capacity @ 80% 25°C			Shell Diameter Ø	O/A HEIGHT	G PCD	H Mtg Hole	Inlet Valve Ø	Outlet Valve Ø	E BSP Relief	F NPT Alarm
		R404a	R134a	R407F								
B31-005	RV25	11.4	13.9	12.9	168	802	164.3		7/8" RL	7/8" RL		
B31-014	RV73	24.4	29.6	27.5	219	1005	218.4		7/8"RL	7/8"RL	3/8"	N/A
B31-068	RV80	35.4	43.0	39.9	219	1396	218.4	14	1-1/8" RL	1-1/8" RL		

RL means Rotolock Valve c/w 1 x Ø1/4"MSAE service port. RV80 Only 2 x Rotolock Sight Glasses c/w Indicator ball. All Dimensions in mm +/- 3.0mm

Small Horizontal Receivers

Item No.	Horizontal Liquid Receiver Model No.	Pump Down Capacity @ 80% 25°C			Shell Diameter Ø	O/A Length	O/A Depth	O/A Height	H Mtg Hole	Inlet Valve Ø	Outlet Valve Ø	E BSP Relief	F NPT Alarm
		R404a	R134a	R407F									
B30-003	RH25	11.4	13.9	12.9	168	760	264	220		7/8" RL	7/8" RL		
B30-008	RH73	24.4	29.6	27.5	219	992	325	325		7/8"RL	7/8"RL		
B30-027	RH80	35.4	43.0	39.9	219	1362	367	370	14	1-1/8" RL	1-1/8" RL	3/8"	N/A
B30-010	RH90	40.4	49.0	45.5	219	1942	370	370		1-1/8" RL	1-1/8" RL		

RL means Rotolock Valve c/w 1 x Ø1/4"MSAE service port. All Dimensions in mm +/- 3.0mm For mounting feet bolt hole centres contact BITZER.

Explanation of Type Designation

RV - 400 X 1345 - A - 33

Vessel type: RH = Receiver Horizontal; RV = Receiver Vertical; SA = Accumulator; SH = Suction Header; OS = Oil Separator

RV - 400 X 1345 - A - 33

Shell Diameter in mm

RV - 400 X 1345 - A - 33

Shell length (excludes ends) in mm

RV - 400 X 1345 - A - 33

Connection type: A = Flanged connections to suit 1-5/8", 2-1/8", 2-5/8" fully flanged valves; B = 1-1/4" Rotolock connections;

C = 1-3/4" Rotolock connections; D = Soldering connections

RV - 400 X 1345 - A - 33

Vessel design pressure in Bar

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Note: The ISO standard only applies to the BITZER NSW and VIC branches