

LIQUID or SUCTION 3 FUNCTION SHELLS

“UNIVERSAL FILTER-DRIER SHELLS”

DESCRIPTION

- For **R12, R22, R502, R134a, R404A, R407C, R410A, R507** and **other blends** with their specific oil and lubricant.
- For **R717 (NH₃ ammonia)**: steel connections only.
- These drier shells offer a complete protection and receive all our cores as well as other existing cores in the market.
- **Steel corrosion** resistant finish for shells.
- **3 function cores** not furnished with shells (see page 235).
- **Copper fittings** or **steel fittings** connections on demand.
- Also, drier shells can be supplied nickel plated finished (20 pieces minimum) to replace brass shell applications (supermarkets, breweries, chemical plants, etc...).
- All our shells (or others) can be fitted in minutes with the unique **QUICK-CAP COVER**. See below.
- Std. flange cover is made with allied aluminium and bolted with steel bolts (std liquid line).

LIQUID or SUCTION LINE SELECTION & INSTALLATION

- For **LIQUID LINE**: Shells may be installed in any position. Best if installed as close as possible to any expansion device. Best if installed upstream solenoid valves (for protection) and moisture indicator (for permanent readings of cores efficiency).
- For **SUCTION LINE**: Best if installed as close as possible to the compressor but upstream of the accumulator, if any.
- For **FAST CORE REPLACEMENT**: allow a minimum of 10" (25 cm) free space above the flange cover so that you can easily remove it and retract the filter core. You can mount on the cover all kind of different hand valves, service valves or access valves by using the predrilled 1/4" NPT threaded connection (is actually plugged).

SPECIFICATIONS

- Our drier shells receive type **824, 848** and **810** cores (24, 48 and 100 cubic inch cores, see page 235).
- **CE** approved (PED).
- Maximum working pressure,
 - between -10 °C and + 65°C: 34,5 bar (500 psi)
 - between -45 °C and - 10°C: 25,9 bar (375 psi)
- Burst pressure: **175 bar** (2500 psi).
- Maximum temperature rating: **135°C** (275°F).



KIT	SPARE PART DESIGNATION KITS
BLT-024 BLT-048 BLT-100	SET of 8 std. bolts for 3" shells SET of 8 std. bolts for 4 ³ / ₄ " shells SET of 8 std. bolts for 6" shells
SBLT-024 SBLT-048 SBLT-100	SET of 8 stainless steel bolts for 3" shells SET of 8 stainless steel bolts for 4 ³ / ₄ " shells SET of 8 stainless steel bolts for 6" shells
GSK-024 GSK-048 GSK-100	Heavy duty gasket only for 3" shell cover Heavy duty gasket only for 4 ³ / ₄ " shell cover Heavy duty gasket only for 6" shell cover
COV-024 COV-048 COV-100	Molded aluminum cover for 3" shells Molded aluminum cover for 4 ³ / ₄ " shells Molded aluminum cover for 6" shells
INT-024 INT-300 INT-400	Internal part KIT for US-245 through US-249 Internal part KIT for US-30013 through US-30021 Internal part KIT for US-40017 through US-40025

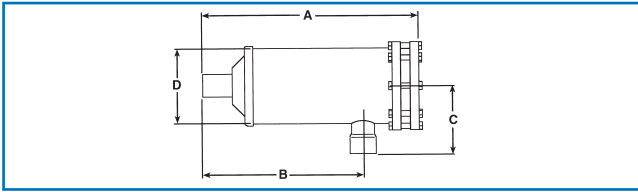


TABLE 1: CAPACITY LIQUID LINE SELECTION & ORDERING.
CAPACITIES SHOWN IN kW (1 kW = 860 Fg/h = 0,284 US TON of refrigeration).

PART NUMBER	CONNECT. O.D.S. (SW:STEEL)	RECOMMENDED CAPACITY (kW)		FLOW CAPACITY (kW)		CORES (REF. & DATA)				DIMENSIONS (cm)				
		R404A R507	R22 R134a	R404A R507	R22 R134a	QTY	PART NR. 24,48,100 cubic inch	VOLUME cm ³ (cu. in)	SURFACE cm ² (sq. in)	A	B	C	D	
US-485	5/8"	33	50	57	80	1	US-848-C or US-848-CC	786 (48)	413 (64)	23	16	8	12	
US-487	7/8"	33	50	124	170	1		786 (48)	413 (64)	24	16	9	12	
US-489	1 1/8"	48	55	190	260	1		786 (48)	413 (64)	24	16	9	12	
US-9613	1 5/8"	100	140	337	455	2	or	1571 (96)	826 (128)	38	30	10	12	
US-14413	1 5/8"	166	210	347	475	3	US-848-F	2357 (144)	1239 (192)	53	45	10	12	
US-30021	2 5/8"	333	430	651	885	3	US-810-CM or US-810-F	4910 (300)	1897 (294)	72	63	16	16	
US-40017	2 1/8"	451	580	523	710	4		6457 (400)	2529 (392)	86	77	13	16	
US-40021	2 5/8"	451	580	651	885	4	6457 (400)	2529 (392)	89	79	16	16		
US-9610-SW	1 1/4"SW	100	140	266	360	2	Steel Connection Shells (For steel tubings) See DATA above (same)				39	30	10	12
US-14412-SW	1 1/2"SW	166	210	342	470	3					53	43	10	12
US-19216-SW	2"SW	247	310	380	520	4					65	57	11	12
US-40016-SW	2"SW	451	580	684	800	4					88	76	12	16

- NOTE:**
- RECOMMENDED CAPACITIES are based on field replacement or installation for maximum drying efficiency. Lab conditions would give approx double values. Ratings in accordance with **ARI standard 730-86**.
 - Our flow capacities are based on **0,14 bar** (2 psi) pressure drop through the shell (cores are attending to be clogged and should be replaced above such a value).
 - IMPORTANT:** The surface filtration of our corrugated "C" and "CM" are increased by **50%** regarding the above table values and have less pressure drop.
 - See our core DATA's page 236 in connection with page 236 for field efficient readings and analysis maintenance.

TABLE 2: CAPACITY SUCTION LINE SELECTION.
CAPACITIES SHOWN IN kW (1 kW = 860 Fg/h = 0,284 US TON of refrigeration).

EVAPOR. TEMP.	MAXIMUM CAPACITY RATING IN kW													
	-40°C		-30°C			-18°C			-7°C			+5°C		
REFRIGERANTS	22/134a	404A	22	134a	404A	22	134a	404A	22	134a	404A	22	134a	404A
ODS CONNECTION TO BE TAKEN	PRESSURE DROP in bar and (psi)													
	0,04 (0,5)	0,04 (0,5)	0,07 (1)	0,07 (1)	0,07 (1)	0,10 (1,5)	0,10 (1,5)	0,10 (1,5)	0,14 (2)	0,14 (2)	0,14 (2)	0,21 (3)	0,21 (3)	0,21 (3)
5/8"	2,1	1,6	3,8	3,8	2,9	5,9	5,9	4,9	8,7	8,7	6,7	11	11	8,1
7/8"	4,9	3,6	8,7	8,7	6,6	13	13	10,5	18	18	13,3	28	28	24
1 1/8"	7,3	5,6	13	13	9,5	20	20	16,1	24	24	19,0	44	44	36
1 3/8"	10	7,6	18	18	13,3	28	28	22,8	41	41	31,4	61	61	50
1 5/8"	9,4	9,5	24	24	18,1	37	37	30,4	53	53	39,9	78	78	65
2 1/8"	18	13,3	33	33	24,7	50	50	40,9	77	77	53	107	107	88
2 5/8"	28	21	52	52	39	79	79	65	121	121	86	168	168	139
US-9610-SW	7,3	5,6	13	13	9,5	20	20	16,1	24	24	19,0	44	44	36
US-14412-SW	10	7,6	18	18	13,3	28	28	22,8	41	41	31,4	61	61	50
US-19216-SW	9,4	9,5	24	24	18,1	37	37	30,4	53	53	39,9	78	78	65
US-40016-SW	18	13,3	33	33	24,7	50	50	40,9	77	77	53	107	107	88