

UTILIZZO :

Il separatore di liquido posto sulla aspirazione ha la funzione di contenere l'eccesso di refrigerante non evaporato e di prevenirne il ritorno allo stato liquido al compressore evitandone la rottura (VEDI TIPI pag. seguenti).

RACCOMANDAZIONI DI UTILIZZO per impianti frigoriferi :

- * funzionanti a ciclo reversibile: sbrinamento gas caldo / pompa di calore;
- * con variazioni sensibili di temperatura ambientale e/o funzionamento intermittente;
- * con sezioni Cond./Evap. separate e distanziate;
- * per refrigerazione di camion, container, ecc;

CARATTERISTICHE :

- * uscita assicurata del fluido frigorifero in fase vapore dal separatore (out);
- * separazione assicurata della parte in fase vapore dalla parte in fase liquido nel fluido frigorifero;
- * ritorno assicurato dell'olio al compressore (rispettando i criteri di scelta e le raccomandazioni);
- * attacchi a brasare in Cu (eliminazione del problema di ossidazione rispetto agli attacchi in Fe);
- * adatti per refrigeranti:
 - CFC (R502)
 - HCFC (R22)
 - HFC (R134a - R404a - R507 - R407c - R410a);

EMPLOY :

The suction accumulator placed on the suction has the purpose of containing the not evaporated refrigerant excess, and of preventing its return to the liquid state towards the compressor, thus avoiding the breakage (see TYPE on following pages).

SUGGESTIONS OF USE for refrigerating equipments :

- * operating with reversible cycle: warm gas defrosting / heat pump;
- * with considerable variations of the ambient temperature and/or intermittent working;
- * having the Condenser / Evaporator sections separated and spaced;
- * for the refrigeration of lorries, containers, etc;

FEATURES :

- * assured exit of the refrigerant fluid in the steam state from the suction accumulator (out);
- * assured separation of the steam state component from the liquid state component in the refrigerant fluid;
- * assured return of the oil to the compressor (by respecting the selection criteria and the suggestions);
- * braze connections in Cu = copper (elimination of the oxidation problem compared with the Fe = steel connections);
- * suitable for refrigerants:
 - CFC (R502)
 - HCFC (R22)
 - HFC (R134a - R404a - R507 - R407c - R410a);



COSTRUZIONE COMPONENTI PER LA
REFRIGERAZIONE ED IL CONDIZIONAMENTO
COMPONENTS MANUFACTURING FOR
REFRIGERATION AND AIR CONDITIONING

SEPARATORI DI LIQUIDO / SUCTION ACCUMULATORS

FLÜSSIGKEITS-ABSCHEIDER / SÉPARATEURS DE LIQUIDE

CRITERI DI SCELTA, raccomandazioni :

- * il separatore di liquido non deve MAI essere scelto in base al diametro della tubazione, ma tenendo presente che:
- * la capacità di refrigerante selezionata deve essere almeno compresa tra il 50% ed il 70% di quella totale dell'impianto;
Esempio:
Capacità totale impianto lt. 10:
- capacità separatore minimo lt. 5 per servizio statico (pompe di calore, Chiller...)
- capacità separatore minimo lt. 7 per servizio dinamico (Tram, treni, camion ...)
- * per selezionare il separatore è bene consultare la TABELLA DI SCELTA, nella stesura della quale si è tenuto conto che il campo di utilizzo delle capacità deve essere compreso tra due limiti fondamentali:
 - ◆ limite capacità massima, in funzione delle perdite di carico accettabili e del rumore;
 - ◆ limite capacità minima, in funzione della minima velocità in grado di assicurare il trascinarsi dell'olio verso il compressore;

Tra le altre considerazioni di cui si è tenuto conto nella compilazione della suddetta tabella meritano di essere citate le seguenti:

- ◆ con i diametri più piccoli si ha maggior turbolenza e quindi maggior garanzia di trascinarsi dell'olio, a fronte di più elevate perdite di carico;
- ◆ con i diametri più grandi la velocità in periferia è solitamente minore di quanto lo sia al centro: di conseguenza le velocità di passaggio saranno superiori rispetto a quelle che si riscontrano nei diametri più piccoli, assicurando il trascinarsi dell'olio in periferia;
- ◆ parte dei dati ricavati hanno tenuto conto di quanto sopra esposto e di quanto riportato nella tabella n° 11, capitolo 3, dell' << ASHRAE HANDBOOK 1990 >>;
- * si deve installare il separatore il più vicino possibile al compressore ed alla stessa altezza;
- * Le capacità massime raccomandate in tabella tengono conto di una perdita di carico nel separatore che, nelle applicazioni standard, assume generalmente un valore di **0,5 C**;
- * Per applicazioni dove è prevista l'inversione di ciclo o in special modo su macchine che utilizzano R134a per una migliore selezione consigliamo di contattare il nostro ufficio tecnico.

FUNZIONAMENTO :

- * IN = ingresso gas nel separatore
- * OUT = uscita gas verso il compressore

CRITERIA FOR SELECTION, suggestions :

- * NEVER choose the suction accumulator on the base of the pipe diameter, but bear in mind that:
- * the selected capacity of the refrigerant liquid has to be at least within 50% and 70% of the equipment total amount;
Example:
Total capacity of the plant ltr. 10:
- Minimum suction accumulator capacity ltr. 5 for static working (heat pumps, Chiller...)
- Minimum suction accumulator capacity ltr. 7 for dynamic working (trams, trains, trucks ...)
- * to select the suction accumulator it is useful consulting the SELECTION TABLE, for the drawing up of which it has been considered that the usable range of the capacities has to be included within two basic limits:
 - ◆ maximum capacity extent, in function of the acceptable flow resistances and of the noise;
 - ◆ minimum capacity extent, in function of the minimum speed capable of assuring the oil dragging towards the compressor;

Among the remarks taken into consideration for the drawing up the a.m. table, the following ones deserve to be mentioned:

- ◆ the lower diameters involve higher turbulence and therefore higher warranty of oil dragging, against higher flow resistances;
- ◆ with bigger diameters the peripheral speed is lower than the central one: as a consequence the flow speeds will be higher compared to the ones measured in the lower diameters, thus assuring the oil dragging to the peripheral;
- ◆ some of the obtained data keep count of what shown above and also of what mentioned on the table No. 11, item 3 of << ASHRAE HANDBOOK 1990 >>;
- * the suction accumulator must be installed the nearest possible to the compressor and at the same height;
- * The maximum recommended capacities listed in the table take into account a pressure loss in the separator that in the standard applications is generally around **0.5 C**;
- * For a better selection in case of applications where the cycle inversion is foreseen or especially for machines using R134a, we recommend you to get in touch with our technical staff.

OPERATING :

- * IN = Gas inlet into the separator
- * OUT = Gas outlet towards the compressor

TABELLA DI SCELTA - SELECTION TABLE

T I P O	T Y P E	O D S	CAMPO DI UTILIZZO USABLE RANGE	CAPACITA' RACCOMANDATE					SUGGESTED CAPACITIES									
				TEMPERATURE DI EVAPORAZIONE					EVAPORATION TEMPERATURES									
				R22					R502					R134a				
				+5 C	-5 C	-20 C	-30 C	-40 C	+5 C	-5 C	-20 C	-30 C	-40 C	+5 C	-5 C	-20 C	-30 C	-40 C
01/S	12 & (1/2")	MAX	1000 Fg/h	2.90	2.10	1.40	0.95	0.60	2.58	1.72	1.15	0.69	0.45	1.80	1.29	0.69	0.43	0.26
KW			3.40	2.40	1.60	1.10	0.70	3.00	2.00	1.33	0.80	0.52	2.10	1.5	0.80	0.50	0.30	
02/S		MIN	1000 Fg/h	0.45	0.35	0.29	0.24	0.20	0.33	0.28	0.24	0.21	0.17	0.37	0.31	0.22	0.17	0.11
KW			0.52	0.40	0.34	0.28	0.23	0.38	0.32	0.28	0.24	0.20	0.43	0.36	0.26	0.20	0.13	
02/S	16 & (5/8")	MAX	1000 Fg/h	5.80	4.30	2.67	1.70	1.15	4.90	3.60	2.15	1.50	0.90	3.70	2.49	1.20	0.73	0.43
KW			6.80	5.00	3.10	2.00	1.35	5.70	4.20	2.50	1.75	1.05	4.30	2.90	1.40	0.85	0.50	
03/S		MIN	1000 Fg/h	0.82	0.70	0.60	0.48	0.35	0.62	0.56	0.45	0.37	0.28	0.64	0.52	0.39	0.28	0.20
KW			0.95	0.80	0.70	0.55	0.40	0.72	0.65	0.52	0.43	0.32	0.75	0.60	0.45	0.33	0.23	
04/S	18 & (3/4")	MAX	1000 Fg/h	9.30	6.90	4.20	2.80	1.72	8.00	5.80	3.70	2.25	1.45	6.96	4.56	2.15	1.38	0.77
KW			10.80	8.00	4.80	3.30	2.00	9.30	6.80	4.30	2.60	1.70	8.10	5.30	2.50	1.60	0.90	
05/S		MIN	1000 Fg/h	1.15	1.00	0.73	0.60	0.52	0.95	0.78	0.62	0.50	0.40	1.07	0.90	0.64	0.47	0.34
KW			1.35	1.15	0.85	0.70	0.60	1.10	0.90	0.72	0.58	0.45	1.25	1.05	0.74	0.55	0.40	
05/S	22 & (7/8")	MAX	1000 Fg/h	13.30	10.30	6.20	4.30	2.84	11.30	8.40	5.40	3.50	2.15	9.46	6.02	2.92	1.81	1.03
KW			15.50	12.00	7.20	5.00	3.30	13.20	9.80	6.30	4.00	2.50	11.00	7.00	3.40	2.10	1.20	
06/S		MIN	1000 Fg/h	2.00	1.70	1.25	1.00	0.77	1.55	1.35	0.95	0.78	0.65	1.38	1.12	0.82	0.60	0.43
KW			2.30	1.95	1.45	1.20	0.90	1.80	1.50	1.10	0.90	0.75	1.60	1.30	0.95	0.70	0.50	
06/S	28 & (1-1/8")	MAX	1000 Fg/h	28.00	19.80	12.70	8.40	5.42	23.50	16.40	10.50	6.80	4.30	16.34	10.30	5.16	3.01	1.81
KW			32.50	23.00	14.80	9.80	6.30	27.30	19.00	12.20	7.90	4.95	19.00	12.00	6.00	3.50	2.10	
07/S		MIN	1000 Fg/h	3.80	3.20	2.30	1.90	1.50	2.90	2.40	1.80	1.55	1.20	2.15	1.81	1.29	0.99	0.69
KW			4.40	3.70	2.70	2.20	1.70	3.40	2.80	2.10	1.80	1.40	2.50	2.10	1.50	1.15	0.80	
08/S	35 & (1-3/8")	MAX	1000 Fg/h	50.00	35.30	21.00	13.80	9.00	46.60	31.60	17.70	11.20	6.90	36.11	24.08	12.04	7.14	4.21
KW			58.00	41.00	24.50	16.00	10.40	54.00	36.50	20.50	13.00	8.00	42.00	28.00	14.00	8.30	4.90	
09/S		MIN	1000 Fg/h	6.70	5.70	4.30	3.45	2.75	6.00	4.30	3.20	2.70	2.10	4.64	3.78	2.75	2.06	0.92
KW			7.80	6.60	5.00	4.00	3.20	7.00	5.00	3.70	3.10	2.40	5.40	4.40	3.20	2.40	1.07	
09/S	42 & (1-5/8")	MAX	1000 Fg/h	82.85	56.95	32.20	23.70	15.50	79.40	50.80	30.10	19.00	12.00	53.31	34.39	17.20	11.18	6.02
KW			96.00	66.00	41.00	27.50	18.50	92.00	59.00	35.00	22.00	14.00	62.00	40.00	20.00	13.00	7.00	
10/S		MIN	1000 Fg/h	10.80	8.20	6.90	5.60	4.30	8.40	6.90	5.45	4.75	3.65	6.36	5.25	3.78	2.75	1.89
KW			12.50	9.50	8.00	6.50	5.00	9.70	8.00	6.30	5.50	4.20	7.40	6.10	4.40	3.20	2.20	
10/S	54 & (2-1/8")	MAX	1000 Fg/h	164.00	116.50	69.90	45.70	30.20	164.00	116.50	69.90	45.70	30.20	103.18	68.79	34.39	20.64	12.04
KW			190.00	135.00	81.00	53.00	35.00	190.00	135.00	81.00	53.00	35.00	120.00	80.00	40.00	24.00	14.00	
11/S		MIN	1000 Fg/h	20.70	17.20	13.37	11.20	8.15	20.70	17.20	13.37	11.20	8.15	12.04	10.32	7.05	5.42	3.70
KW			24.00	20.00	15.50	13.00	9.50	24.00	20.00	15.50	13.00	9.50	14.00	12.00	8.20	6.30	4.30	
11/S-SP	64	MAX	1000 Fg/h	246.00	168.30	95.00	53.50	34.50	246.00	168.30	95.00	53.50	34.50	172.60	110.45	51.80	31.93	18.12
KW			285.00	195.00	110.00	62.00	40.00	285.00	195.00	110.00	62.00	40.00	200.00	128.00	60.00	37.00	21.00	
12/S-SP		MIN	1000 Fg/h	27.60	23.70	18.80	14.65	11.50	27.60	23.70	18.80	14.65	11.50	18.12	14.67	10.36	8.00	5.60
KW			32.00	27.50	21.80	17.00	13.30	32.00	27.50	21.80	17.00	13.30	21.00	17.00	12.00	9.30	6.50	
11/S-SP	67 & (2-5/8")	MAX	1000 Fg/h	258.90	181.20	103.60	60.40	39.70	258.90	181.20	103.60	60.40	39.70	181.20	116.50	56.10	34.50	19.85
KW			300.00	210.00	120.00	70.00	46.00	300.00	210.00	120.00	70.00	46.00	210.00	135.00	65.00	40.00	23.00	
12/S-SP		MIN	1000 Fg/h	29.35	25.00	19.85	15.55	12.00	29.35	25.00	19.85	15.55	12.00	19.00	15.55	11.22	8.63	6.04
KW			34.00	29.00	23.00	18.00	14.00	34.00	29.00	23.00	18.00	14.00	22.00	18.00	13.00	10.00	7.00	
11/S-SP	76 & (3")	MAX	1000 Fg/h	371.00	246.00	138.00	88.90	51.80	371.00	246.00	138.00	88.90	51.80	241.65	153.60	69.10	43.15	25.90
KW			430.00	285.00	160.00	103.00	60.00	430.00	285.00	160.00	103.00	60.00	280.00	178.00	80.00	50.00	30.00	
12/S-SP		MIN	1000 Fg/h	38.85	32.80	26.30	20.70	15.10	38.85	32.80	26.30	20.70	15.10	24.16	20.00	14.25	11.22	7.77
KW			45.00	38.00	30.50	24.00	17.50	45.00	38.00	30.50	24.00	17.50	28.00	23.20	16.50	13.00	9.00	
11/S-SP	80 & (3-1/8")	MAX	1000 Fg/h	388.40	258.90	146.70	94.95	56.10	388.40	258.90	146.70	94.95	56.10	254.60	164.00	77.70	49.20	28.50
KW			450.00	300.00	170.00	110.00	65.00	450.00	300.00	170.00	110.00	65.00	295.00	190.00	90.00	57.00	33.00	
12/S-SP		MIN	1000 Fg/h	41.42	34.50	27.60	21.60	15.55	41.42	34.50	27.60	21.60	15.55	25.90	21.60	15.55	12.10	8.20
KW			48.00	40.00	32.00	25.00	18.00	48.00	40.00	32.00	25.00	18.00	30.00	25.00	18.00	14.00	9.50	
FAS125.40	114.3 & (4-1/2")	MAX	1000 Fg/h	595.50	431.50	276.00	172.60	120.80	530.70	388.30	241.60	151.00	95.00	371.00	258.40	155.30	86.30	54.40
KW			690.00	500.00	320.00	200.00	140.00	615.00	450.00	280.00	175.00	110.00	430.00	300.00	180.00	100.00	63.00	
FAS150.40		MIN	1000 Fg/h	164.00	120.80	62.10	40.60	25.00	164.00	120.80	62.10	40.60	25.00	116.50	69.00	37.10	23.70	14.70
KW			190.00	140.00	72.00	47.00	29.00	190.00	140.00	72.00	47.00	29.00	135.00	80.00	43.00	27.50	17.00	



COSTRUZIONE COMPONENTI PER LA
REFRIGERAZIONE ED IL CONDIZIONAMENTO
COMPONENTS MANUFACTURING FOR
REFRIGERATION AND AIR CONDITIONING

SEPARATORI DI LIQUIDO / SUCTION ACCUMULATORS

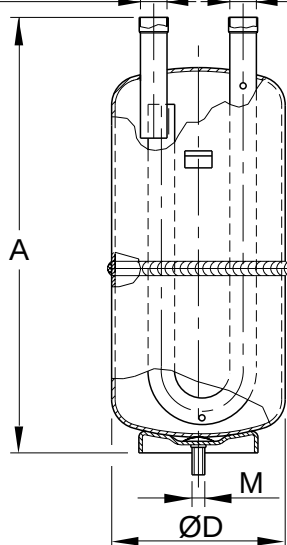
FLÜSSIGKEITS-ABSCHIEDER / SÉPARATEURS DE LIQUIDE

TABELLA DI SCELTA - SELECTION TABLE

T I P O	T Y P E	O D S	CAMPO DI UTILIZZO USABLE RANGE	CAPACITA' RACCOMANDATE										SUGGESTED CAPACITIES					
				TEMPERATURE DI EVAPORAZIONE										EVAPORATION TEMPERATURES					
				R404a/R507					R407c					R410a					
				+5 C	-5 C	-20 C	-30 C	-40 C	+5 C	-5 C	-20 C	-30 C	-40 C	+5 C	-5 C	-20 C	-30 C	-40 C	
01 /S	12 & (1/2")	MAX	1000 Fg/h	3.27	2.15	1.20	0.77	0.47	3.27	2.15	1.20	0.77	0.47	4.06	3.02	1.98	1.47	0.86	
02 /S			KW	3.80	2.50	1.40	0.90	0.55	3.80	2.50	1.40	0.90	0.55	4.70	3.50	2.30	1.70	1.00	
03 /S		MIN	1000 Fg/h	0.60	0.52	0.39	0.31	0.23	0.59	0.52	0.40	0.32	0.24	2.76	1.81	1.04	0.69	0.43	
			KW	0.70	0.60	0.45	0.36	0.27	0.69	0.60	0.46	0.37	0.28	3.20	2.10	1.20	0.80	0.50	
02 /S	16 & (5/8")	MAX	1000 Fg/h	5.93	3.96	2.15	0.92	0.86	5.85	3.96	2.15	1.50	0.86	8.63	6.65	3.88	2.42	1.64	
03 /S			KW	6.90	4.60	2.50	1.07	1.00	6.80	4.60	2.50	1.75	1.00	10.00	7.70	4.50	2.80	1.90	
04 /S		MIN	1000 Fg/h	0.95	0.86	0.69	0.52	0.40	1.03	0.86	0.67	0.52	0.40	4.66	3.28	1.98	1.47	0.78	
05 /S			KW	1.10	1.00	0.80	0.60	0.46	1.20	1.00	0.78	0.60	0.46	5.40	3.80	2.30	1.70	0.90	
04 /S	18 & (3/4")	MAX	1000 Fg/h	10.32	7.31	3.96	2.58	1.63	10.75	7.31	3.96	2.58	1.63	13.80	11.22	6.65	4.32	2.68	
05 /S			KW	12.00	8.50	4.60	3.00	1.90	12.50	8.50	4.60	3.00	1.90	16.00	13.00	7.70	5.00	3.10	
06 /S		MIN	1000 Fg/h	1.72	1.50	1.12	0.90	0.69	1.72	1.46	1.12	0.90	0.69	7.08	5.09	2.85	1.98	1.29	
07 /S			KW	2.00	1.75	1.30	1.05	0.80	2.00	1.70	1.30	1.05	0.80	8.20	5.90	3.30	2.30	1.50	
05 /S	22 & (7/8")	MAX	1000 Fg/h	14.62	10.32	5.33	3.44	2.15	14.62	10.32	5.42	3.44	2.15	19.85	14.67	9.92	6.82	4.14	
06 /S			KW	17.00	12.00	6.20	4.00	2.50	17.00	12.00	6.30	4.00	2.50	23.00	17.00	11.50	7.90	4.80	
07 /S		MIN	1000 Fg/h	2.15	1.81	1.46	1.12	0.86	2.06	1.81	1.46	1.12	0.82	10.79	6.82	3.88	2.50	1.64	
08 /S			KW	2.50	2.10	1.70	1.30	1.00	2.40	2.10	1.70	1.30	0.95	12.50	7.90	4.50	2.90	1.90	
06 /S	28 & (1-1/8")	MAX	1000 Fg/h	24.94	17.2	9.46	5.93	3.61	24.94	17.20	9.03	5.93	3.61	42.29	31.07	18.99	13.81	8.20	
07 /S			KW	29.00	20.00	11.00	6.90	4.20	29.00	20.00	10.50	6.90	4.20	49.00	36.00	22.00	16.00	9.50	
08 /S		MIN	1000 Fg/h	3.35	2.92	2.32	1.81	1.46	3.35	2.84	2.24	1.81	1.38	15.97	12.08	6.30	4.32	2.85	
09 /S			KW	3.90	3.40	2.70	2.10	1.70	3.90	3.30	2.60	2.10	1.60	18.50	14.00	7.30	5.00	3.30	
08 /S	35 & (1-3/8")	MAX	1000 Fg/h	55.89	37.83	21.07	13.76	8.17	55.89	37.83	20.64	13.76	8.17	77.67	53.23	32.79	23.30	14.67	
09 /S			KW	65.00	44.00	24.50	16.00	9.50	65.00	44.00	24.00	16.00	9.50	90.00	64.00	38.00	27.00	17.00	
10 /S		MIN	1000 Fg/h	7.22	6.28	4.90	3.87	2.84	7.22	6.28	4.99	3.87	2.84	24.16	16.40	11.22	6.47	4.14	
			KW	8.40	7.30	5.70	4.50	3.30	8.40	7.30	5.80	4.50	3.30	28.00	19.00	13.00	7.50	4.80	
09 /S	42 & (1-5/8")	MAX	1000 Fg/h	79.11	55.03	30.09	19.78	12.47	79.11	54.17	30.09	19.78	12.04	138.10	94.90	57.00	36.20	23.30	
10 /S			KW	92.00	64.00	35.00	23.00	14.50	92.00	63.00	35.00	23.00	14.00	160.00	110.00	66.00	42.00	27.00	
11 /S		MIN	1000 Fg/h	10.75	8.60	6.71	5.16	3.96	10.32	8.60	6.71	5.25	4.04	33.60	24.20	14.70	9.90	5.95	
			KW	12.50	10.00	7.80	6.00	4.60	12.00	10.00	7.80	6.10	4.70	39.00	28.00	17.00	11.50	6.90	
10/S	54 & (2-1/8")	MAX	1000 Fg/h	164.00	116.50	69.90	45.70	30.20	164.00	116.50	69.90	45.70	30.20	267.50	190.00	129.50	82.00	56.00	
11/S			KW	190.00	135.00	81.00	53.00	35.00	190.00	135.00	81.00	53.00	35.00	310.00	220.00	150.00	95.00	65.00	
12/S		MIN	1000 Fg/h	20.70	17.20	13.37	11.20	8.15	20.70	17.20	13.37	11.20	8.15	69.00	48.50	28.50	19.00	13.00	
13/S			KW	24.00	20.00	15.50	13.00	9.50	24.00	20.00	15.50	13.00	9.50	80.00	56.00	33.00	22.00	15.00	
11/S-SP	64	MAX	1000 Fg/h	246.00	168.30	95.00	53.50	34.50	246.00	168.30	95.00	53.50	34.50	371.00	263.00	164.00	108.00	69.00	
12/S-SP			KW	285.00	195.00	110.00	62.00	40.00	285.00	195.00	110.00	62.00	40.00	430.00	305.00	190.00	125.00	80.00	
13/S-SP		MIN	1000 Fg/h	27.60	23.70	18.80	14.65	11.50	27.60	23.70	18.80	14.65	11.50	103.50	69.00	37.00	24.00	15.50	
			KW	32.00	27.50	21.80	17.00	13.30	32.00	27.50	21.80	17.00	13.30	120.00	80.00	43.00	28.00	18.00	
11/S-SP	67 & (2-5/8")	MAX	1000 Fg/h	258.90	181.20	103.60	60.40	39.70	258.90	181.20	103.60	60.40	39.70	397.00	285.00	181.00	121.00	77.50	
12/S-SP			KW	300.00	210.00	120.00	70.00	46.00	300.00	210.00	120.00	70.00	46.00	460.00	330.00	210.00	140.00	90.00	
13/S-SP		MIN	1000 Fg/h	29.35	25.00	19.85	15.55	12.00	29.35	25.00	19.85	15.55	12.00	116.50	80.30	45.70	31.00	20.50	
			KW	34.00	29.00	23.00	18.00	14.00	34.00	29.00	23.00	18.00	14.00	135.00	93.00	53.00	36.00	24.00	
11/S-SP	76 & (3")	MAX	1000 Fg/h	371.00	246.00	138.00	88.90	51.80	371.00	246.00	138.00	88.90	51.80	578.00	427.00	259.00	168.50	112.00	
12/S-SP			KW	430.00	285.00	160.00	103.00	60.00	430.00	285.00	160.00	103.00	60.00	670.00	495.00	300.00	195.00	130.00	
13/S-SP		MIN	1000 Fg/h	38.85	32.80	26.30	20.70	15.10	38.85	32.80	26.30	20.70	15.10	138.00	99.00	51.80	33.50	21.50	
			KW	45.00	38.00	30.50	24.00	17.50	45.00	38.00	30.50	24.00	17.50	160.00	115.00	60.00	39.00	25.00	
11/S-SP	80 & (3-1/8")	MAX	1000 Fg/h	388.40	258.90	146.70	94.95	56.10	388.40	258.90	146.70	94.95	56.10	613.00	457.00	285.00	190.00	129.50	
12/S-SP			KW	450.00	300.00	170.00	110.00	65.00	450.00	300.00	170.00	110.00	65.00	710.00	530.00	330.00	220.00	150.00	
13/S-SP		MIN	1000 Fg/h	41.42	34.50	27.60	21.60	15.55	41.42	34.50	27.60	21.60	15.55	155.00	112.00	63.00	42.30	28.50	
			KW	48.00	40.00	32.00	25.00	18.00	48.00	40.00	32.00	25.00	18.00	180.00	130.00	73.00	49.00	33.00	
FAS125.40	114.3 & (4-1/2")	MAX	1000 Fg/h	530.50	388.50	241.50	151.00	95.00	552.50	405.50	241.50	151.00	90.50	932.00	664.50	423.00	267.50	172.50	
FAS150.40			KW	615.00	450.00	280.00	175.00	110.00	640.00	470.00	280.00	175.00	105.00	1080.00	770.00	490.00	310.00	200.00	
		MIN	1000 Fg/h	164.00	121.00	62.00	40.50	25.00	151.00	108.00	55.00	34.50	22.50	241.50	168.50	108.00	63.00	41.50	
			KW	190.00	140.00	72.00	47.00	29.00	175.00	125.00	64.00	40.00	26.00	280.00	195.00	125.00	73.00	48.00	

TIPO 02/S ÷ 13/S / TYPE 02/S ÷ 13/S

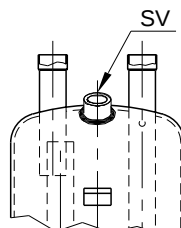
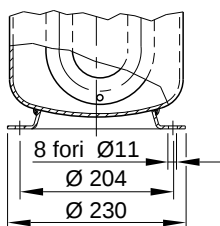
ODS (Cu) ODS (Cu)



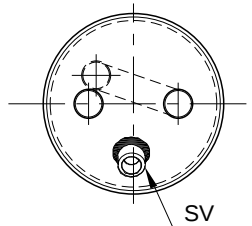
A RICHIESTA
ON REQUEST

PED CAT.	SV
Art.3§3 - I	1/4" NPT
II	1/2" NPT

* NOTA / NOTE
PER 12/S E 13/S
FOR 12/S AND 13/S



A RICHIESTA
ON REQUEST



ESEMPI DI ORDINAZIONE / ORDERS EXAMPLES

Attacco NPT (a richiesta)
Connection NPT (on request)

Attacchi / connections

02/S - 25 - ODS 16 + SV

Pressione max d'esercizio
Working max pressure

Tipo/Type

ETICHETTE / LABELS

Art.3§3

		LEGNAGO VERONA-Italy I-37045	9723CE Art.3 par.3
Type:			
Manufacture- Nr.			
Manufacture year			
Fluids Group		Excluded	
Category		Volume V.L.	
Temperature	TS- C		
Max.Permissible pressure	PS-bar:		
Test pressure	PT-bar:		

CAT. I

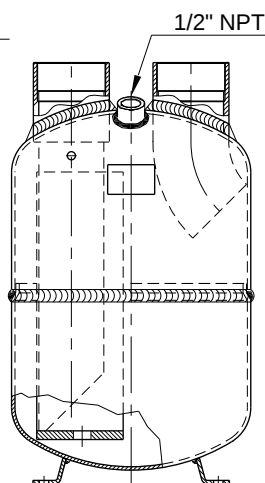
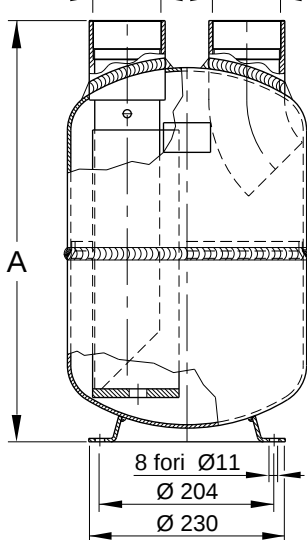
		LEGNAGO VERONA-Italy I-37045	CE
Type:			
Manufacture- Nr.			
Manufacture year			
Fluids Group		Excluded	
Category		Volume V.L.	
Temperature	TS- C		
Max.Permissible pressure	PS-bar:		
Test pressure	PT-bar:		

CAT. II

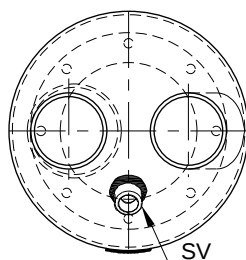
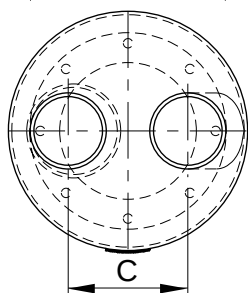
		LEGNAGO VERONA-Italy I-37045	CE 0036
Type:			
Manufacture- Nr.			
Manufacture year			
Fluids Group		Excluded	
Category		Volume V.L.	
Temperature	TS- C		
Max.Permissible pressure	PS-bar:		
Test pressure	PT-bar:		

TIPO 11/S-SP ÷ 13/S-SP / TYPE 11/S-SP ÷ 13/S-SP

ODS (Fe) ODS (Fe)



A RICHIESTA
ON REQUEST



ETICHETTE / LABELS

CAT. II

		LEGNAGO VERONA-Italy I-37045	CE 0036
Type:			
Manufacture- Nr.			
Manufacture year			
Fluids Group		Excluded	
Category		Volume V.L.	
Temperature	TS- C		
Max.Permissible pressure	PS-bar:		
Test pressure	PT-bar:		

ESEMPI DI ORDINAZIONE / ORDERS EXAMPLES

Attacco NPT (a richiesta)
Connection NPT (on request)

Attacchi / connections

12/S-SP - 25 - ODS 76 + SV

Pressione max d'esercizio
Working max pressure

Tipo/Type

** VEDI "CRITERI DISCELTA" A PAG. 22 / **SEE "CRITERIA FOR SELECTION" ON PAGE 22



COSTRUZIONE COMPONENTI PER LA
REFRIGERAZIONE ED IL CONDIZIONAMENTO
COMPONENTS MANUFACTURING FOR
REFRIGERATION AND AIR CONDITIONING

SEPARATORI DI LIQUIDO Art.3§3 E CAT. I - II / SUCTION ACCUMULATORS Art.3§3 AND CAT. I - II

FLÜSSIGKEITS-ABSCHIEDER Art.3§3 UND KAT. I-II / SÉPARATEURS DE LIQUIDE Art.3§3 ET CAT. I - II

TABELLA A/TABLE A: DATI TECNICI, TECHNICAL DATA - SERIE: **PS = 25 bar**

Temperatura TS - C Temperature TS - C	Min. -10 Max. +120	Min. -50 Max. +120	Pressione di collaudo PT Test pressure PT
Pressione max. consentita PS -bar Max permissible pressure PS -bar	25	18	PT -bar: 35.75 (25x1.43)

Refrigeranti/Refrigerants: R22, R502, R134a, R401A, R401B, R402A, R402B, R404A, R407C, R507 e altri/ and other ones

PED C A T.	T T I Y P P O E	ØD DIAMETRO DIAMETER	A ALTEZZA HEIGHT	Ø ODS attacchi / connections								C				VOLUME**	M	PESO
				millimetri / millimeters				pollici / inch				interasse				LITRI	VITE	Kg
				Opzioni / Options				Opzioni / Options				distance between axes				LITRES	SCREW	WEIGHT
Art.3§3	01/S	77	245	-	12	-	-	-	1/2"	-	-	-	41	-	-	0.88	M8	1.0
	02/S	100	230	12	16	-	-	1/2"	5/8"	-	-	41	43	-	-	1.3	M8	1.1
	03/S	100	270	12	16	-	-	1/2"	5/8"	-	-	41	43	-	-	1.6	M8	1.25
I	04/S	120	280	16	18	22	-	5/8"	3/4"	7/8"	-	43	54	74	-	2.3	M8	1.80
	05/S	130	355	16	18	22	-	5/8"	3/4"	7/8"	-	43	54	74	-	3.4	M8	2.50
	06/S	140	375	18	22	28	-	3/4"	7/8"	1-1/8"	-	54	74	74	-	4.6	M8	3.40
	07/S	160	385	18	22	28	-	3/4"	7/8"	1-1/8"	-	54	74	92	-	5.6	M10	4.15
	08/S	180	430	22	28	35	-	7/8"	1-1/8"	1-3/8"	-	74	92	105	-	7.8	M10	5.60
	09/S	220	415	28	35	42	-	1-1/8"	1-3/8"	1-5/8"	-	92	105	128	-	11	M10	6.50
II	10/S	260	495	35	42	54	-	1-3/8"	1-5/8"	2-1/8"	-	105	128	166	-	19	M10	11.5
	11/S	280	550	42	54	-	-	1-5/8"	2-1/8"	-	-	128	166	-	-	24.5	M12	16.5
	11/S-SP	280	550	64	67	76	80	-	2-5/8"	3"	3-1/8"	140	140	140	140	24.5	NOTA NOTE	16.5
	12/S	300	585	54	-	-	-	2-1/8"	-	-	-	166	-	-	-	30		20.5
	12/S-SP	300	585	64	67	76	80	-	2-5/8"	3"	3-1/8"	140	140	140	140	30		20.5
	13/S	300	655	54	-	-	-	2-1/8"	-	-	-	166	-	-	-	35		22.0
	13/S-SP	300	655	64	67	76	80	-	2-5/8"	3"	3-1/8"	140	140	140	140	35		22.0

TABELLA B/TABLE B: DATI TECNICI, TECHNICAL DATA - SERIE: **PS = 31 bar**

SERIE PER R410A / SERIES FOR R410A

Temperatura TS - C Temperature TS - C	Min. -10 Max. +120	Min. -50 Max. +120	Pressione di collaudo PT Test pressure PT
Pressione max. consentita PS -bar Max permissible pressure PS -bar	31	23	PT -bar: 44.33 (31x1.43)

Refrigeranti/Refrigerants: R22, R502, R134a, R401A, R401B, R402A, R402B, R404A, R407C, R410A, R507 e altri/ and other ones

PED C A T.	T T I Y P P O E	ØD DIAMETRO DIAMETER	A ALTEZZA HEIGHT	Ø ODS attacchi / connections								C				VOLUME**	M	PESO
				millimetri / millimeters				pollici / inch				interasse				LITRI	VITE	Kg
				Opzioni / Options				Opzioni / Options				distance between axes				LITRES	SCREW	WEIGHT
Art.3§3	01/S	77	245	-	12	-	-	-	1/2"	-	-	-	41	-	-	0.88	M8	1.0
	02/S	100	230	12	16	-	-	1/2"	5/8"	-	-	41	43	-	-	1.3	M8	1.1
	03/S	100	270	12	16	-	-	1/2"	5/8"	-	-	41	43	-	-	1.6	M8	1.25
I	04/S	120	280	16	18	22	-	5/8"	3/4"	7/8"	-	43	54	74	-	2.3	M8	1.80
	05/S	130	355	16	18	22	-	5/8"	3/4"	7/8"	-	43	54	74	-	3.4	M8	2.50
	06/S	140	375	18	22	28	-	3/4"	7/8"	1-1/8"	-	54	74	74	-	4.6	M8	3.40
	07/S	160	385	18	22	28	-	3/4"	7/8"	1-1/8"	-	54	74	92	-	5.6	M10	4.15
	08/S	180	430	22	28	35	-	7/8"	1-1/8"	1-3/8"	-	74	92	105	-	7.8	M10	5.60
	09/S	220	415	28	35	42	-	1-1/8"	1-3/8"	1-5/8"	-	92	105	128	-	11	M10	6.50
II	10/S	260	495	35	42	54	-	1-3/8"	1-5/8"	2-1/8"	-	105	128	166	-	19	M10	11.5
	11/S	280	550	42	54	-	-	1-5/8"	2-1/8"	-	-	128	166	-	-	24.5	M12	16.5
	11/S-SP	280	550	64	67	76	80	-	2-5/8"	3"	3-1/8"	140	140	140	140	24.5	NOTA NOTE	16.5
	12/S	300	585	54	-	-	-	2-1/8"	-	-	-	166	-	-	-	30		20.5
	12/S-SP	300	585	64	67	76	80	-	2-5/8"	3"	3-1/8"	140	140	140	140	30		20.5

TABELLA C/TABLE C: DATI TECNICI, TECHNICAL DATA - SERIE: **PS = 34 bar**

SERIE PER R410A / SERIES FOR R410A

Temperatura TS - C Temperature TS - C	Min. -10 Max. +120	Min. -50 Max. +120	Pressione di collaudo PT Test pressure PT
Pressione max. consentita PS -bar Max permissible pressure PS -bar	34	25	PT -bar: 48.62 (34x1.43)

Refrigeranti/Refrigerants: R22, R502, R134a, R401A, R401B, R402A, R402B, R404A, R407C, R410A, R507 e altri/ and other ones

PED C A T.	T T I Y P P O E	ØD DIAMETRO DIAMETER	A ALTEZZA HEIGHT	Ø ODS attacchi / connections								C				VOLUME**	M	PESO
				millimetri / millimeters				pollici / inch				interasse				LITRI	VITE	Kg
				Opzioni / Options				Opzioni / Options				distance between axes				LITRES	SCREW	WEIGHT
Art.3§3	01/S	77	245	-	12	-	-	-	1/2"	-	-	-	41	-	-	0.88	M8	1.0
	02/S	100	230	12	16	-	-	1/2"	5/8"	-	-	41	43	-	-	1.3	M8	1.1
	03/S	100	270	12	16	-	-	1/2"	5/8"	-	-	41	43	-	-	1.6	M8	1.25
I	04/S	120	280	16	18	22	-	5/8"	3/4"	7/8"	-	43	54	74	-	2.3	M8	1.80
	05/S	130	355	16	18	22	-	5/8"	3/4"	7/8"	-	43	54	74	-	3.4	M8	2.50
	06/S	140	375	18	22	28	-	3/4"	7/8"	1-1/8"	-	54	74	74	-	4.6	M8	3.40
	07/S	160	385	18	22	28	-	3/4"	7/8"	1-1/8"	-	54	74	92	-	5.6	M10	4.15
	08/S	180	430	22	28	35	-	7/8"	1-1/8"	1-3/8"	-	74	92	105	-	7.8	M10	5.60
	09/S	220	415	28	35	42	-	1-1/8"	1-3/8"	1-5/8"	-	92	105	128	-	11	M10	6.50
II	10/S	260	495	35	42	54	-	1-3/8"	1-5/8"	2-1/8"	-	105	128	166	-	19	M10	11.5
	11/S	280	550	42	54	-	-	1-5/8"	2-1/8"	-	-	128	166	-	-	24.5	M12	16.5
	11/S-SP	280	550	64	67	76	80	-	2-5/8"	3"	3-1/8"	140	140	140	140	24.5	NOTA NOTE	16.5