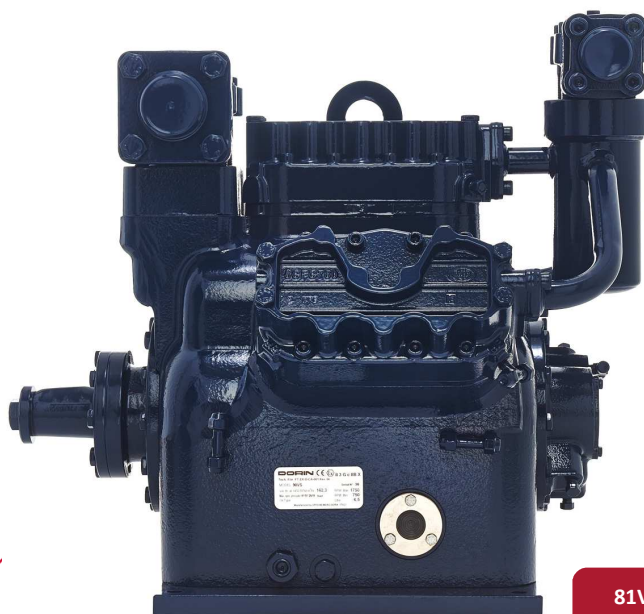




VS / 2S-VS SERIES

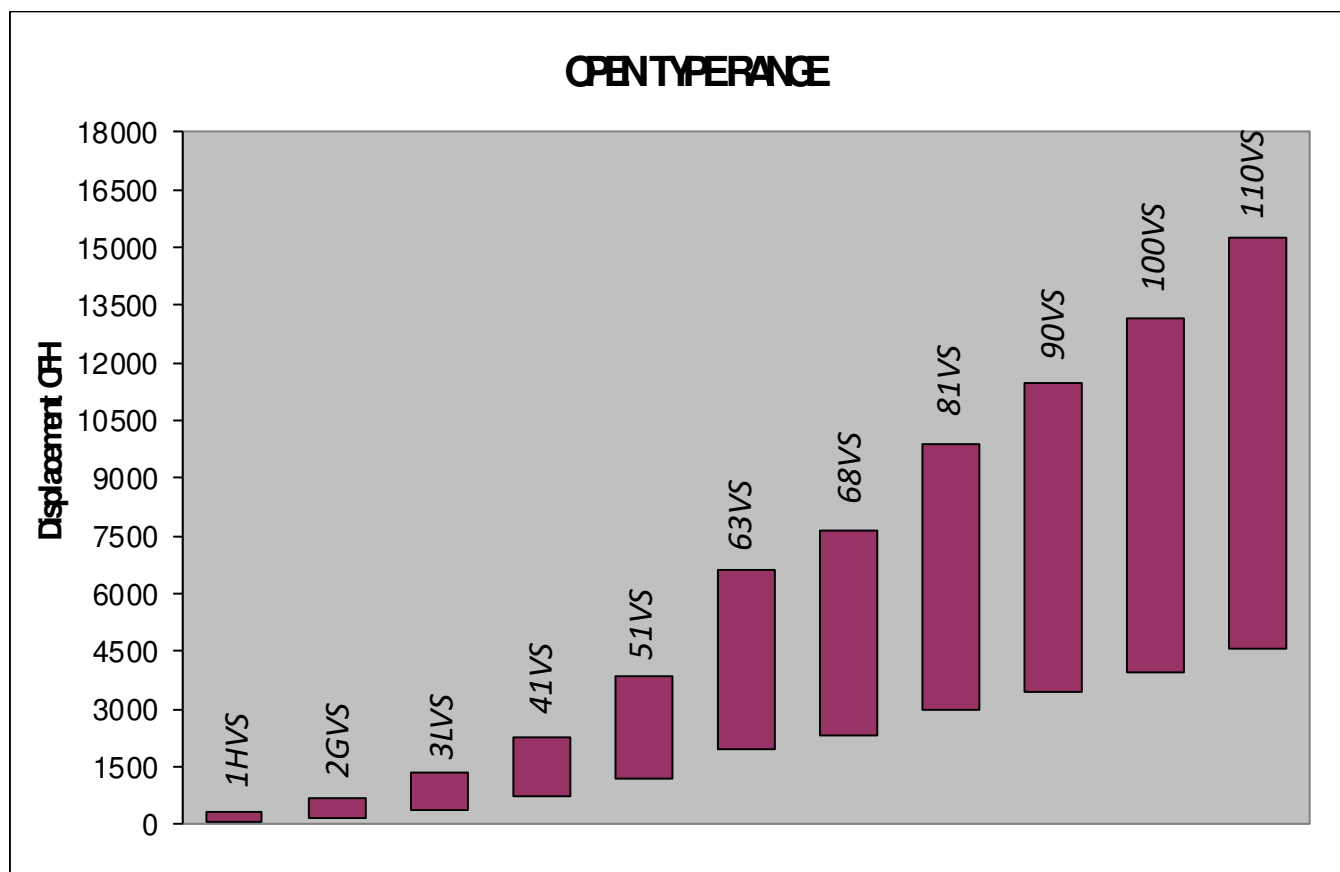
HFC APPLICATION
29.92 to 1135 in³



81VS-90VS
RANGE

OPEN TYPE COMPRESSORS
COMPRESSEURS TYPE OUVERT
COMPRESORES DE TIPO ABIERTO

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DORIN S.p.A. has been producing open compressor since 1932.

These compressors are constructed with the highest quality materials and are therefore suitable for working in particularly hard conditions.

Compressors are designed to offer top performance and special care has been given to have smooth and silent operation.

Compressors ranging between 1HVS and 51VS are lubricated via a sling disk. Those models can rotate only in a specific rotational sense, clearly marked on the compressor.

Compressors ranging between 63VS and 110VS are lubricated via a gear oil pump. Those models can rotate in both senses.

All open type compressors manufactured by DORIN can be provided in accordance to Directive 2014/34/EU – ATEX.

IMPORTANT NOTE

ATEX approval is excluding all mechanical components including but not limited to drive belts, inherent cases, and some electric components supplied with the compressor.

Each compressor shows following ATEX marking:

II = group II machinery

3 = category 3 (zone 2)

G = explosive atmosphere with gas, vapor or fog presence

c = protection type for non-electric equipment (constructive safety)

IIB = gas group

X = Special conditions for safe use:

- low mechanical risk

- Tamb: -4°F ÷ +140°F

- temperature class T3 or T4 according to the working condition. Temperature class can anyway be identified considering the given application, caring about what mentioned in the following application envelopes.

Dorin S.p.A. produit des compresseurs ouverts depuis 1932.

Ces compresseurs sont réalisés avec des matériaux de première qualité, ils sont donc indiqués pour un fonctionnement dans les conditions les plus délicates.

Les compresseurs ont été conçus pour offrir le maximum des prestations, et une attention particulière a été consacrée au contrôle du niveau de bruit.

Les compresseurs du 1HVS au 51VS sont réalisés sans pompe de l'huile, et ils sont lubrifiés par un disque de centrifugation. Ces modèles peuvent tourner seulement dans un sens de rotation, clairement indiqué sur la machine.

Les compresseurs du 63VS au 110VS sont lubrifiés par une pompe à lobe à haute pression. Ces modèles peuvent tourner dans les deux sens de rotation.

Tous les compresseurs ouverts réalisés par DORIN S.p.A. peuvent être fournis conformément à la directive 2014/34/UE – ATEX.

NOTE IMPORTANTE

La certification ATEX ne concerne aucune des pièces de transmission de mouvement (courroies, carters couvre-courroies, etc.) ni des composants électriques qui pourraient être fournis comme équipement.

Dans ce cas-là, sur le moto-compresseur est lisible le marquage ATEX ci-dessous :



II = dispositif du groupe II

3 = catégorie 3 (zone 2)

G = atmosphère explosive à la présence de gaz, de vapeurs ou de brouillards

c = mode de protection appareillages non électriques (sécurité constructive)

IIB = groupe de gaz

X = Conditions spéciales pour une utilisation sûre:

- faible risque mécanique

- Tamb: -4°F ÷ +140°F

- classe T3 ou T4 de température selon l'état de marche. L'utilisateur doit déduire la température maximale superficielle de l'installation en fonction de l'application, la calculant selon les indications des diagrammes d'application ci-dessous.

DORIN S.p.A. produce compresores abiertos desde 1932.

Estos compresores están fabricados con materiales de la máxima calidad y por lo tanto son adecuados para funcionar en condiciones especialmente difíciles.

Los compresores se han diseñados para ofrecer el mejor rendimiento y además se han tomado medidas especiales para que funcionen sin problemas y en silencio.

Los compresores entre 1HVS y 51VS se lubrican mediante un disco de eslinga. Estos modelos pueden girar solo en un sentido específico, que aparece marcado claramente sobre el compresor.

Los compresores entre 63VS y 110VS se lubrican mediante una bomba de aceite de engranajes. Estos modelos pueden girar en los dos sentidos.

Todos los compresores de tipo abierto fabricados por DORIN pueden suministrarse de conformidad con la directiva 2014/34/UE sobre atmósferas explosivas (ATEX).

NOTA IMPORTANTE

La aprobación ATEX excluye todos los componentes mecánicos, tales como correas de transmisión o cajas inherentes, y algunos componentes eléctricos suministrados con el compresor.

Cada compresor muestra la siguiente marca ATEX:

II = maquinaria de grupo II

3 = categoría 3 (zona 2)

G = atmósfera explosiva en presencia de gas, vapor o niebla

c = tipo de protección para aparatos no eléctricos (seguridad constructiva)

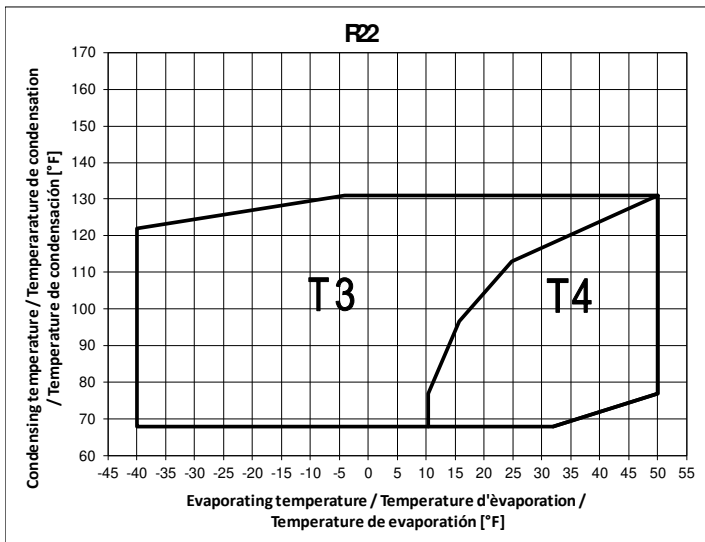
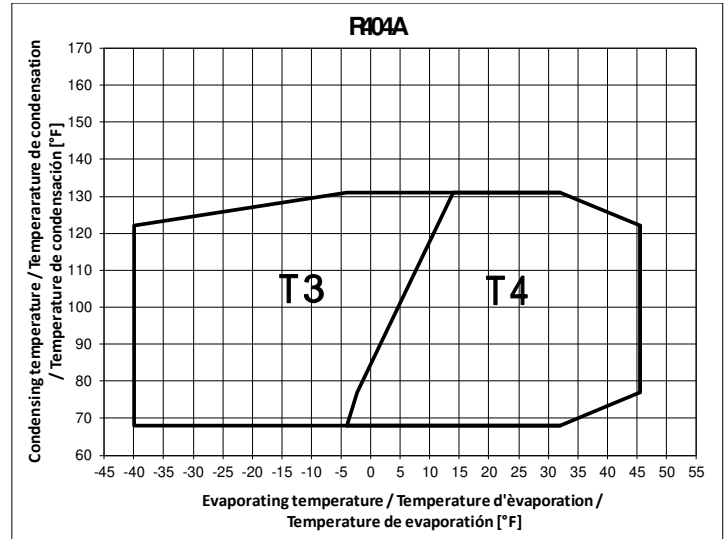
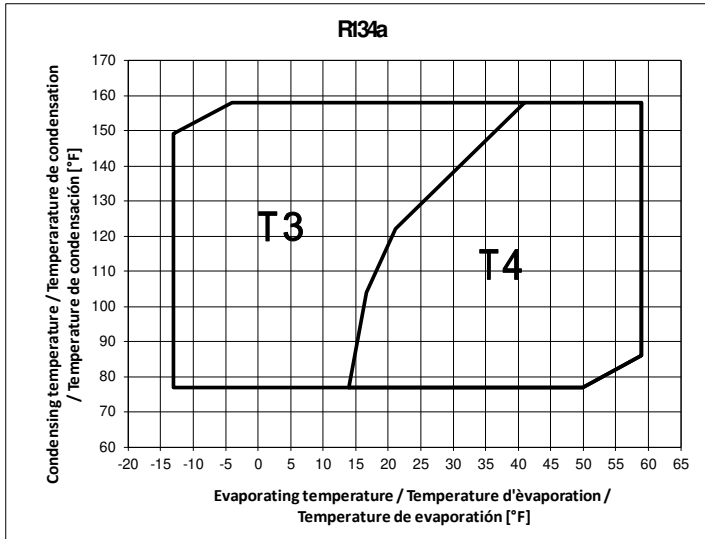
IIB = grupo de gas

X = condiciones especiales para un uso seguro:

- riesgo mecánico bajo

- Temperatura ambiente: de -4°F a +140°F

- Clase de temperatura T3 o T4 según las condiciones de funcionamiento. La clase de temperatura puede identificarse teniendo en cuenta la aplicación dada y atendiendo a lo mencionado en las siguientes carcasas para aplicaciones.



T3 maximum surface temperature 392°F

T4 maximum surface temperature 275°F

Suction gas superheat < 54 °F

T3 température de surface maximale 392°F

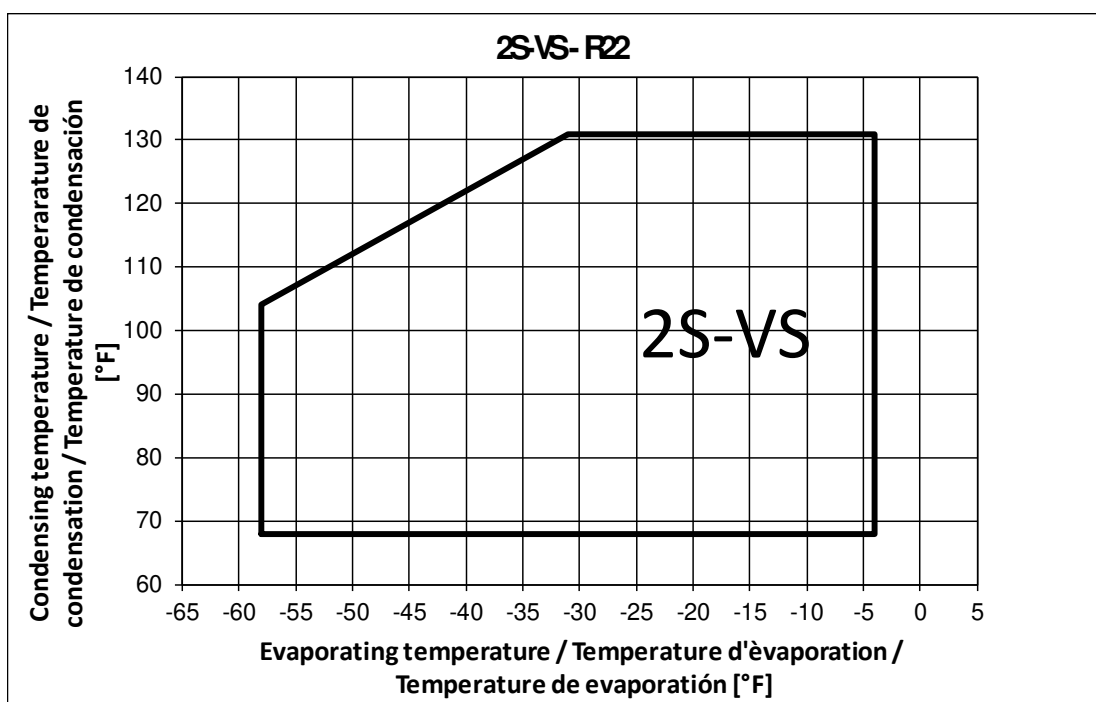
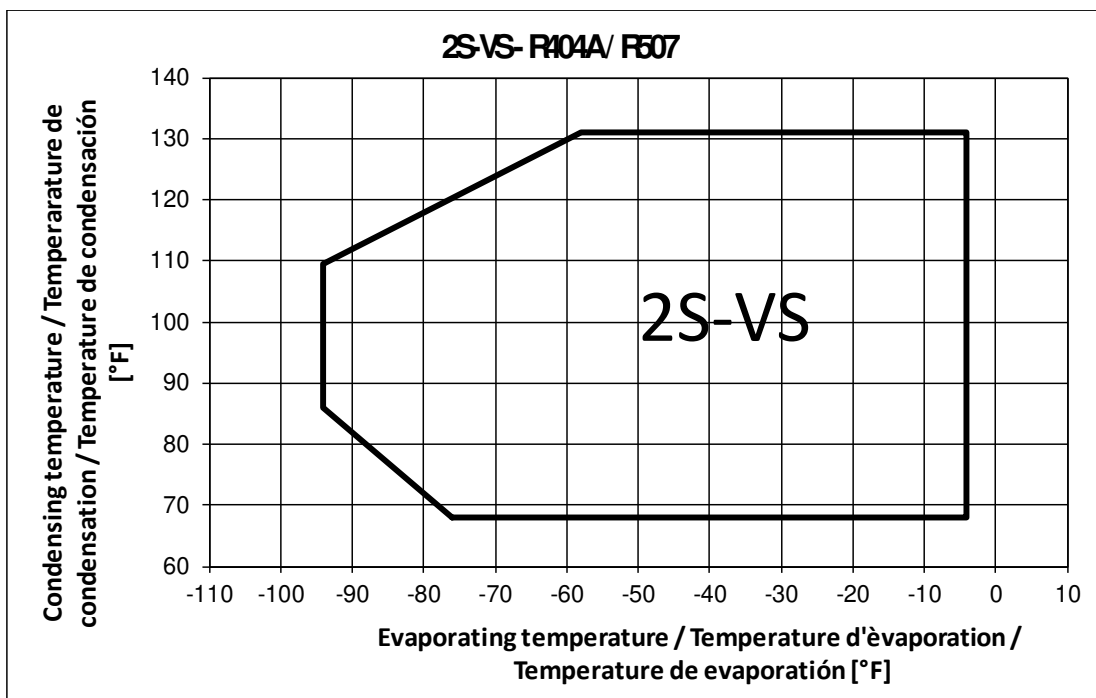
T4 température de surface maximale 275°F

Surchauffe à l'aspiration < 54 °F

T3 temperatura superficial máxima de 392°F

T4 temperatura superficial máxima de 275°F

Sobrecalentamiento del gas de aspiración < 54 °F



- Use with R22 only where permitted by national legislation
- Utiliser avec R22 seulement lorsque cela est autorisé par la législation nationale
- Uso con R22 solamente si lo permite la legislación nacional

Model Modèle Modelo	Cyl. Cyl. Cil.	Bore Alésage Diámetro	Stroke Course Carrera	Swept volume Cylindrée Cilindrada	Displacement Volume bal. Volumen desplazado		Suction Aspiration Aspiración	Discharge Refoulement Descarga	Flywheel Volant Volante	Oil charge Charge huile Carga aceite	Weight Poids Peso neto	r.p.m. tr / mn r.p.m.		Power input Puissance absorbée Potencia absorbida
	n	[in]	[in]	[in ³]	CFH		SL [in]	DL [in]	[in] *	[lb]	[lb] **	min	max	kW
1HVS	2	1,77	0,945	4,64	234	@ 1450	5/8f	1/2f	5,20	0,9	24,3	500	1450	0.245 - 1.47
2GVS	2	2,36	1,18	10,34	521	@ 1450	3/4f	5/8f	6,30	2,2	48,5	500	1450	1.47 - 5.52
3LVS	2	2,40	2,36	21,40	966	@ 1300	1 1/8s	3/4f	10,63	3,3	83,8	500	1300	2.94 - 11.0
41VSR	2	2,91	2,56	34,17	1543	@ 1300	1 1/8s	7/8s	11,93	6,6	172	600	1300	4.05 - 14.7
41VSM/3B	2	2,91	2,56	34,17	1543	@ 1300	1 3/8s	1 1/8s	11,93	6,6	172	600	1300	4.05 - 14.7
41VSM/4B	2	2,91	2,56	34,17	1543	@ 1300	1 3/8s	1 1/8s	11,93	6,6	181	600	1300	4.05 - 14.7
51VSR	2	3,46	3,07	57,91	2614	@ 1300	1 3/8s	1 1/8s	13,19	8,8	260	600	1300	7.35 - 22.1
51VSM	2	3,46	3,07	57,91	2614	@ 1300	1 5/8s	1 3/8s	13,19	8,8	260	600	1300	7.35 - 22.1
63VS/4B	4	3,07	2,56	75,97	3825	@ 1450	1 5/8s	2 x 1 1/8s	12,20	12,1	344	750	1750	11.0 - 36.8
63VS/6B	4	3,07	2,56	75,97	3825	@ 1450	1 5/8s	2 x 1 1/8s	12,20	12,1	344	750	1750	11.0 - 36.8
63VSC/6B	4	3,07	2,56	75,97	3825	@ 1450	1 5/8s	1 3/8s	12,20	12,1	344	750	1750	11.0 - 36.8
68VS/4B	4	3,31	2,56	87,87	4424	@ 1450	2 1/8s	1 3/8s	12,20	12,1	344	750	1750	11.0 - 55.2
68VS/6B	4	3,31	2,56	87,87	4424	@ 1450	2 1/8s	1 3/8s	12,20	12,1	344	750	1750	11.0 - 55.2
81VS	6	3,07	2,56	113,81	5730	@ 1450	2 1/8s	1 5/8s	12,20	14,3	448	750	1750	11.0 - 73.5
90VS	6	3,31	2,56	131,81	6636	@ 1450	2 1/8s	1 5/8s	12,20	14,3	448	750	1750	11.0 - 73.5
100VS	8	3,07	2,56	151,64	7635	@ 1450	3 1/8s	2 1/8s	12,20	18,7	529	750	1750	14.7 - 91.9
110VS	8	3,31	2,56	175,87	8855	@ 1450	3 1/8s	2 1/8s	12,20	18,7	529	750	1750	14.7 - 91.9

FW Flywheel Volant Volante	CH Crankcase heater Résistance carter Resistencia cárter	BF Head fan Ventilation auxiliaire Ventilación enfriamiento auxiliar
WH Water cooled head Tête refroidie à eau Refrigeración de la culata con agua	CR Capacity control Régulateur de puissance Regulador de potencia	US Unloaded start Démarrage à vide By-pass arranque

Model Modèle - Modelo	FW *	CH *	BF	WH *	CR *	US *
1HVS	B	B				
2GVS	B	B				
3LVS	B	B	B			
41VSR	B	B	B	B		
41VSM/3B	B	B	B	B		
41VSM/4B	B	B	B	B		
51VSR	B	B	B	B		
51VSM	B	B	B	B		
63VS/4B	B	B	B	B	B	B
63VS/6B	B	B	B	B	B	B
63VSC/6B	B	B	B	B	B	B
68VS/4B	B	B	B	B	B	B
68VS/6B	B	B	B	B	B	B
81VS	B	B	B	B	B	B
90VS	B	B	B	B	B	B
100VS	B	B	B	B	B	B
110VS	B	B	B	B	B	B
2S-81VS	B	B	B	B	B	B
2S-90VS	B	B	B	B	B	B

* Available for ATEX version / Disponible pour la version ATEX / Disponible en versión ATEX

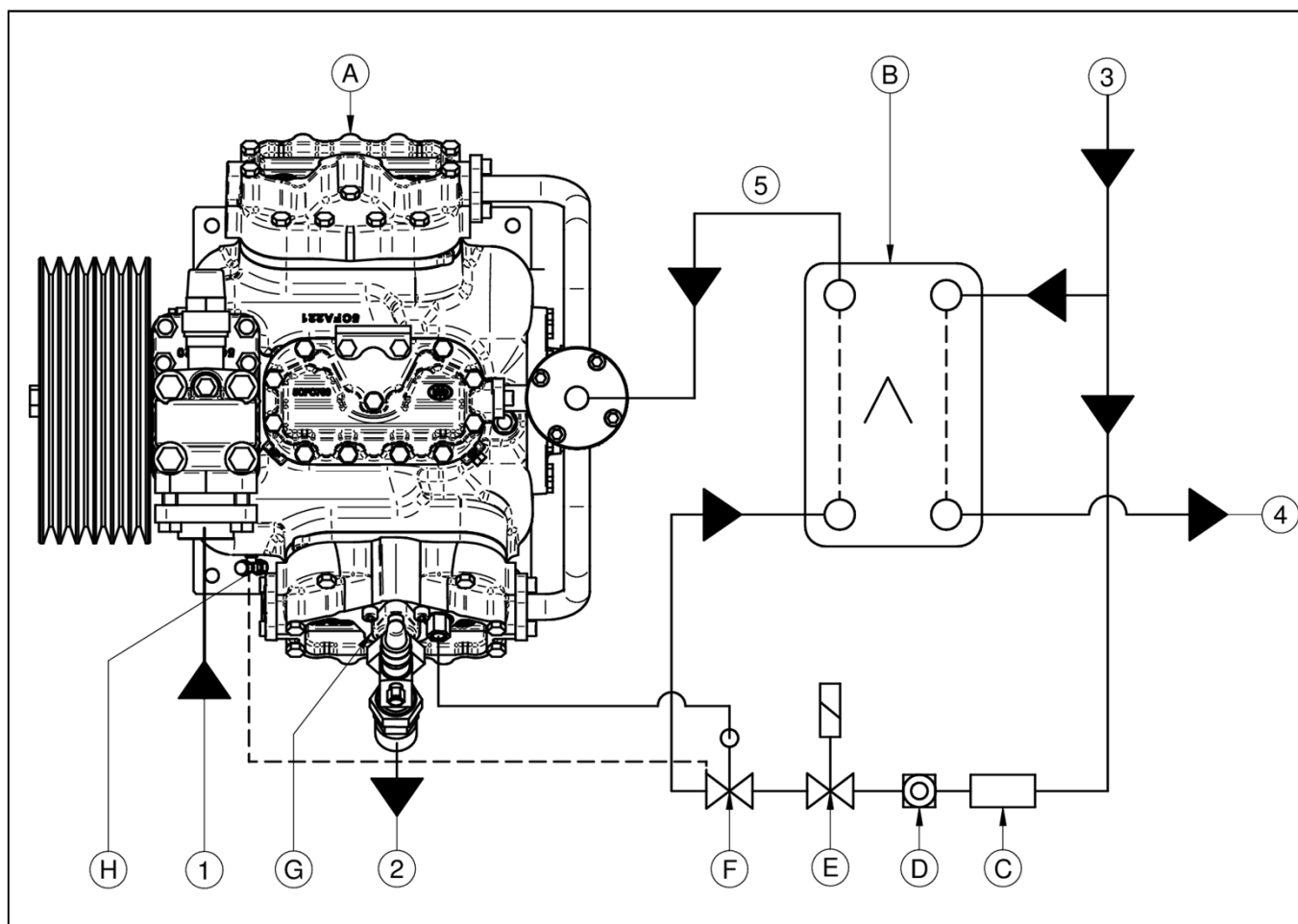
B Optional accessories / Accessoires sur demande / Accesorios opcionales

Model Modèle Modelo	Number of Cylinders Nombre Cylindres Número de Cilindros		Bore Alésage Diámetro	Stroke Course Carrera	Swept volume Cylindrée Cilindrada		Displacement Volume bal. Volumen desplazado		Suction Aspiration Aspiración	Discharge Refoulement Descarga	Flywheel Volant Volante	Oil charge Charge huile Carga aceite	Weight Poids Peso neto	r.p.m. tr / mn r.p.m.		Power input Puissance absorbée Leistungsaufnahme
	LP	HP			LP	HP	LP	HP						min	max	
			[in]	[in]					[in ³]	CFH @ 1450	SL [in]	DL [in]	[in] *			[lb]
2S-81VS	4	2	3.07	2.56	75.8	37.9	3816	1908	2 1/8s	1 5/8s	12.20	14.3	476	750	1750	11.0 - 73.5
2S-90VS	4	2	3.31	2.56	87.9	43.9	4424	2212	2 1/8s	1 5/8s	12.20	14.3	476	750	1750	11.0 - 73.5

* Belts types / Type de courroies / Tipos de correas

** Gross weight with flywheel / Poids brut avec volant / Peso bruto con volante

2S-VS



A - Compressor
B - Liquid subcooler
C - Filter
D - Indicator
E - Solenoid valve
F - Expansion valve
G - Non return valve
H - Low pressure tap

1 - From evaporator
2 - To condenser
3 - From liquid line
4 - To evaporator
5 - To II stage suction

A - Compresseur
B - Sous-refroidisseur de liquide
C - Filtre
D - Indicateur
E - Soupape solénoïde
F - Détendeur thermostatique
G - Soupape de retenue
H - Prise basse pression

1 - Du évaporateur
2 - Au condenseur
3 - Du ligne de liquide
4 - Au évaporateur
5 - Au aspiration du II étages

A - Visor aceite
B - Tapón para aceite
C - Toma baja presión
D - Toma alta presión
E - Tapón vaciado aceite
F - Resistencia cárter
G - Retorno aceite
H - Toma alta presión

1 - Desde el evaporador
2 - Al condensador
3 - Desde la línea de líquido
4 - Al evaporador
5 - A la aspiración de la segunda etapa

R134a

■ Performance data are based on AHR1540 and 60 Hz operation, relating to 65 °F return gas temperature without liquid subcooling

■ * Recommended power

■ Les données de puissance se basent sur AHR1540 et fonctionnement à 60 Hz, se référant à une température du gaz d'aspiration de 65 °F sans sous-refroidissement de liquide

■ * Puissance recommandée

■ Datos de rendimiento se basan de AHR1540 y en funcionamiento con 60 Hz, referidos al temperatura de gas de aspiración de 65 °F sin subenfriamiento del líquido

■ * Potencia recomendada

Model Modèle Modelo	r.p.m. tr / mn r.p.m.	Swept volume Cylindrée Cilindrada	kW *			Cond. Temp. Temp. Cond. Temp. Cond.	Q [BTU/h]	Refrigerating capacity Puissance frigorifique - Potencia frigorífica								
			Power to install Puissance à installer Potencia para instalar					Evaporating temperature Température d'évaporation / Temperatura de evaporación [°F]								
								C			S			B		
			[in³]	C	S			B	[°F]	50	40	30	20	10	0	-10
1HVS	800	4.64	1.1	1.1	0.6	95	10450	8370	6580	5070	3800	2750	1890			
			1.1	0.7	0.7	115	9030	7200	5630	4310	3200	2280	1530			
			1.5	0.7	0.7	135	7700	6120	4780	3650	2700	1920	1260			
			1.1	1.1	0.6	95	13060	10460	8230	6330	4750	3440	2370			
			1.1	1.1	0.7	115	11290	8990	7040	5390	4000	2850	1910			
	1000		2.2	1.1	1.1	135	9620	7650	5980	4560	3380	2390	1570			
			1.5	1.5	0.7	95	18940	15160	11930	9180	6880	4980	3430			
			1.5	1.1	1.1	115	16370	13040	10210	7810	5800	4130	2760			
			2.2	1.1	1.1	135	13950	11100	8670	6620	4900	3470	2280			
			2.2	1.5	1.5	95	22140	17720	13940	10730	8040	5820	4010			
2GVS	800	10.37	2.9	2.2	1.5	115	19130	15240	11930	9130	6780	4830	3230			
			2.9	2.2	1.5	135	16310	12970	10130	7730	5730	4050	2660			
			2.2	2.2	2.2	95	27670	22150	17430	13410	10050	7270	5010			
			2.9	2.2	2.2	115	23910	19050	14910	11410	8470	6040	4040			
			2.9	2.2	2.2	135	20390	16210	12660	9660	7160	5070	3320			
	1000		2.9	2.2	2.2	95	40120	32120	25260	19440	14570	10540	7260			
			4.0	2.9	2.2	115	34670	27620	21620	16540	12280	8750	5850			
			4.0	2.9	2.2	135	29560	23510	18360	14010	10370	7340	4820			
			5.5	4.0	2.9	95	43490	35310	28310	22360	17380	13270	9920			
			5.5	4.0	2.9	115	37240	30120	24070	18940	14650	11100	8170			
3LVS	800	21.42	7.4	4.0	2.9	135	31200	25170	20050	15720	12100	9090	6570			
			5.5	4.0	2.9	95	54360	44140	35380	27950	21730	16590	12400			
			5.5	4.0	2.9	115	46550	37650	30090	23680	18310	13870	10210			
			11.0	4.0	2.9	135	38990	31460	25060	19650	15130	11360	8220			
			4.0	5.5	4.0	95	65230	52960	42460	33540	26070	19900	14880			
	1000		5.5	5.5	4.0	115	55860	45180	36100	28410	21970	16640	12260			
			5.5	5.5	4.0	135	46790	37750	30070	23580	18150	13630	9860			
			7.4	5.5	4.0	95	76310	61100	48070	37010	27750	20090	13850			
			7.4	7.4	5.5	115	65850	52440	41030	31360	23270	16560	11030			
			11.0	7.4	5.5	135	55980	44450	34660	26380	19450	13680	8870			
41VSR 41VSM/3B 41VSM/4B	800	34.17	11.0	5.5	4.0	95	95390	76370	60090	46260	34680	25110	17310			
			11.0	11.0	5.5	115	82320	65550	51290	39200	29080	20690	13790			
			11.0	11.0	5.5	135	69980	55570	43320	32970	24310	17090	11090			
			11.0	7.4	5.5	95	114500	91650	72110	55510	41620	30130	20770			
			11.0	11.0	7.4	115	98780	78660	61550	47040	34900	24830	16550			
	1000		14.7	11.0	7.4	135	83970	66680	51990	39560	29170	20510	13300			
			11.0	11.0	7.4	95	127700	102700	81260	63100	47910	35350	25100			
			14.7	7.4	5.5	115	111000	88910	70140	54230	40910	29870	20780			
			14.7	7.4	5.5	135	95100	76090	59930	46270	34850	25320	17390			
			14.7	11.0	11.0	95	159600	128400	101600	78880	59880	44180	31380			
51VSR 51VSM	800	57.91	18.4	11.0	7.4	115	138800	111200	87670	67780	51140	37340	25970			
			18.4	11.0	7.4	135	118900	95110	74910	57840	43560	31650	21730			
			18.4	14.7	11.0	95	191500	154000	121900	94650	71860	53020	37650			
			18.4	11.0	11.0	115	166500	133400	105200	81340	61370	44810	31170			
			18.4	11.0	11.0	135	142700	114200	89890	69410	52270	37980	26080			
	1000		22.1	14.7	11.0	95	200900	162700	130000	102300	79020	59840	44210			
			22.1	14.7	11.0	115	174600	140900	112300	87930	67610	50760	36880			
			22.1	14.7	11.0	135	148900	119900	95210	74370	56940	42410	30300			
			22.1	14.7	11.0	95	291200	235900	188500	148300	114600	86770	64100			
			29.4	18.4	14.7	115	253200	204300	162800	127500	98040	73600	53480			
63VS/4B 63VS/6B 63VSC/6B	800	75.97	29.4	18.4	14.7	135	215900	173800	138100	107900	82560	61500	43940			
			22.1	18.4	14.7	95	351500	284700	227500	178900	138300	104800	77360			
			25.7	29.4	18.4	115	305600	246600	196400	153900	118400	88830	64540			
			29.4	29.4	18.4	135	260500	209800	166700	130200	99640	74220	53020			
			22.1	14.7	11.0	95	234700	190700	152800	120500	93200	70520	51870			
	1000		22.1	18.4	11.0	115	204700	165300	131700	103200	79210	59410	43150			
			29.4	18.4	11.0	135	175500	141000	111700	86890	66310	49350	35470			
			29.4	18.4	14.7	95	340300	276500	221600	174700	135200	102300	75220			
			29.4	22.1	14.7	115	296800	239600	190900	149600	114900	86140	62570			
			36.8	22.1	14.7	135	254500	204400	161900	126000	96150	71550	51440			
68VS/4B 68VS/6B	800	87.87	36.8	29.4	18.4	95	410700	333600	267400	210800	163100	123500	90780			
			36.8	29.4	18.4	115	358200	289200	230400	180500	138700	104000	75520			
			55.2	29.4	18.4	135	307200	246700	195400	152100	116100	86360	62080			
			29.4	18.4	11.0	95	307200	248400	198100	155300	119600	89970	65880			
			29.4	22.1	14.7	115	266100	214300	170300	133100	101900	75970	54690			
	1000		36.8	22.1	14.7	135	226200	181900	144200	112400	85700	63510	45020			
			36.8	22.1	18.4	95	445500	360200	287200	225200	173300	130500	95520			
			36.8	29.4	18.4	115	385800	310700	247000	192900	147700	110200	79290			
			44.1	29.4	18.4	135	328000	263700	209100	162900	124300	92090	65270			
			36.8	29.4	22.1	95	537600	434700	346600	271800	209200	157500	115300			
81VS	800	113.81	36.8	36.8	22.1	115	465600	375000	298000	232800	178200	133000	95700			
			44.1	36.8	29.4	135	395800	318200	252300	196600	150000	111200	78770			
			29.4	22.1	18.4	95	353600	286400	228900	180000	139200	105400	77830			
			29.4	29.4	18.4	115	307800	248400	197900	155100	119200	89480	65020			
			36.8	29.4	18.4	135	262800	211600	168100	131300	100500	74860	53480			
	1000		36.8	29.4	22.1	95	512800	415300	331800	261000	201800	152800	112900			
			36.8	29.4	22.1	115	446300	360200	286900	224800	172900	129800	94270			
			44.1	36.8	22.1	135	381000	306700	243700	190400	145800	108600	77540			
			44.1	36.8	29.4	95	618800	501200	400500	315000	243500	184400	136200			
			44.1	36.8	29.4	115	538700	434700	346200	271300	208600	156600	113800			
90VS	800	131.81	55.2	44.1	29.4	135	459800	370200	294100	229800	175900	131000	93580			
			29.4	22.1	18.4	95	406800	328800	262100	205400	158000	118800	86820			
			29.4	29.4	18.4	115	351900	283400	225200	175900	134600	100400	72160			
			36.8	29.4	18.4	135	299100	240500	190800	148700	113500	84150	59700			
			36.8	29.4	22.1	95	589800	476700	380000	297800	229000	172200	125900			
	1000		44.1	36.8	29.4	115	510300	411000	326500	255000	195100	145500	104700			
			55.2	36.8	29.4	135	433700	348700	276600	215600	164600	122100	86570			
			44.1	36.8	29.4	95	711800	575400	458600	359400	276400	207900	152000			
			55.2	44.1	29.4	115	615800	496000	394100	307700	235500	175600	126300			
			73.5	44.1	29.4	135	523400	420900	333800	260200	198600	147300	104500			
100VS	800	151.64	29.4	29.4	18.4	95	467600	378600	302400	237700	183600	138900	102500			
			36.8	29.4	22.1	115	406600	328100	261300	204700	157300	118100	85700			
			36.8	29.4	22.1	135	347000	279400	222000	173500	132900	99040	70830			
			44.1	36.8	29.4	95	678000	548900	438400	344700	266300	201500	148600			
			55.2	44.1	29.4	115	589600	475700	378800	296800	228100	171200	124300			
	1000		73.5	44.1	29.4	135	503100	405100	321900	251600	192700	143700	102700			
			55.2	44.1	36.8	95	818200	662400	529200	416000	321300	243100	179300			
			58.8	55.2	36.8	115	711500	574100	457200	358200	275300	206600	150000			
			73.5	55.2	36.8	135	607200	488900	388500	303600	232600	173400	124000			
			73.5	55.2	36.8	135	607200	488900	388500	303600	232600	173400	124000			

PERFORMANCES DATA / DONNÉES DE PUISSANCE / DATOS DE ACTUACIONES

R404A

R507

▪ Performance data are based on AHR1540 and 60 Hz operation, relating to 65 °F return gas temperature without liquid subcooling

▪ * Recommended power

▪ Les données de puissance se basent sur AHR1540 et fonctionnement à 60 Hz, se référant à une température du gaz d'aspiration de 65 °F sans sous-refroidissement de liquide

▪ * Puissance recommandée

▪ Datos de rendimiento se basan de AHR1540 y en funcionamiento con 60 Hz, referidos a temperatura de gas de aspiración de 65 °F sin subenfriamiento del líquido

▪ * Potencia recomendada

Model Modèle Modelo	r.p.m. tr / mn r.p.m.	Swept volume Cylindrée Cilindrada	kW *			Cond. Temp. Temp. Cond. Temp. Cond.	Q [BTU/h]	Refrigerating capacity Puissance frigorifique - Potencia frigorífica									
			Power to install Puissance à installer Potencia para instalar					Evaporating temperature Température d'évaporation / Temperatura de evaporación [°F]									
								C			S			B			
			[in ³]	C	S			B	[°F]	40	30	20	10	5	-5	-10	-20
1HVS	800	4.64	1.1	1.1	0.6	85	13720	11310	9230	7440	6640	5230	4610	3530	2640	1910	
			1.1	0.7	0.7	105	11430	9380	7610	6090	5420	4220	3700	2780	2010	1370	
			1.5	0.7	0.7	125	9110	7420	5960	4720	4180	3200	2780	2030			
	1000		1.1	1.1	0.6	85	17150	14140	11530	9290	8300	6530	5760	4410	3290	2390	
			1.1	1.1	0.7	105	14290	11730	9510	7610	6770	5280	4620	3470	2520	1720	
			2.2	1.1	1.1	125	11390	9270	7450	5900	5220	4000	3470	2530			
	1450		1.5	1.5	0.7	85	24860	20500	16720	13470	12030	9470	8350	6400	4780	3460	
			1.5	1.1	1.1	105	20720	17000	13780	11040	9810	7650	6700	5040	3650	2490	
			2.2	1.1	1.1	125	16510	13440	10800	8560	7570	5800	5030	3670			
			4	3	3	85	30610	25250	20590	16590	14810	11660	10280	7880	5880	4260	
2GVS	800	10.37	4	3	2.5	105	25520	20930	16970	13590	12090	9420	8250	6200	4490	3060	
			4	3	2.5	125	20330	16550	13300	10540	9320	7150	6190	4520			
			4	4	4	85	38270	31560	25730	20740	18520	14580	12850	9840	7350	5320	
	1000		4	4	3	105	31900	26170	21220	16990	15110	11780	10310	7750	5610	3830	
			4	4	3	125	25410	20680	16620	13170	11650	8930	7740	5650			
			7.5	5.5	4	85	55480	45760	37310	30070	26850	21140	18630	14270	10650	7710	
	1450		7.5	7.5	5.5	105	46250	37940	30760	24630	21900	17070	14950	11230	8140	5540	
			7.5	7.5	5.5	125	36850	29990	24100	19090	16890	12950	11220	8180			
			5.5	5.5	4	85	63910	52790	43140	34880	31210	24700	21850	16880	12750	9380	
			7.5	5.5	4	105	54630	44980	36640	29510	26350	20740	18280	13960	10350	7330	
3LVS	800	21.42	10	7.5	5.5	125	44880	36750	29770	23840	21230	16560	14520	10920			
			7.5	7.5	5	85	79890	65980	53930	43600	39010	30870	27310	21090	15930	11720	
			10	7.5	5	105	68290	56220	45790	36890	32930	25920	22840	17440	12940	9160	
	1000		10	10	7.5	125	56090	45930	37210	29800	26540	20700	18150	13650			
			10	7.5	7.5	85	95860	79180	64710	52320	46810	37050	32770	25310	19120	14060	
			15	10	7.5	105	81950	67460	54950	44260	39520	31110	27410	20930	15530	10990	
	1200		15	10	7.5	125	67310	55120	44650	35760	31840	24840	21780	16380			
			10	10	7.5	85	102500	84340	68650	55190	49210	38600	33950	25850	19130	13650	
			15	10	7.5	105	86670	71090	57630	46140	41030	31980	28000	21030	15220	10350	
			15	15	7.5	125	70540	57550	46390	36920	32750	25290	22030	16270			
41VSR 41VSM/3B 41VSM/4B	800	34.17	15	15	10	85	128100	105500	85810	68990	61510	48250	42440	32310	23910	17060	
			25	15	10	105	108400	88860	72040	57670	51280	39970	35000	26290	19030	12940	
			15	15	15	125	88170	71930	57990	46150	40930	31610	27530	20340			
	1000		15	15	15	85	153700	126600	103000	82790	73810	57900	50930	38770	28690	20470	
			20	20	15	105	130000	106700	86450	69200	61540	47970	42000	31550	22830	15520	
			20	20	20	125	105900	86320	69580	55370	49120	37930	33040	24410			
	1200		20	20	20	85	173900	143200	116500	93660	83500	65510	57620	43870	32460	23150	
			25	20	20	105	147100	120700	97800	78290	69620	54260	47520	35690	25830	17560	
			25	25	20	125	119700	97650	78720	62640	55570	42920	37370	27610			
			20	20	20	85	217300	179000	145700	117100	104400	81880	72020	54830	40570	28940	
51VSR 51VSM	800	57.91	25	20	20	105	183900	150800	122300	97860	87020	67830	59400	44610	32280	21950	
			25	25	25	125	149700	122100	98400	78300	69460	53640	46720	34510			
			25	25	25	85	260800	214700	174800	140500	125300	98260	86420	65800	46860	34720	
	1000		30	25	25	105	220700	181000	146700	117500	104500	81390	71280	53540	38740	26340	
			30	30	25	125	179600	146500	118100	93960	83350	64370	56060	41420			
			30	20	20	85	282700	232900	189700	152700	136200	107100	94250	71970	53480	38390	
	1200		30	20	20	105	240200	197200	160000	128200	114100	89030	78040	58780	42710	29240	
			40	25	25	125	196300	160200	129200	102900	91260	70550	61470	45500			
			40	30	25	85	409800	337700	275100	221400	197500	155200	136700	104400	77540	55660	
			40	40	25	105	348300	285800	231900	185900	165400	129100	113200	85230	61930	42400	
63VS/4B 63VS/6B 63VSC/6B	800	75.97	50	50	30	125	284600	232200	187300	149200	132400	102300	89140	65970			
			50	40	40	85	494600	407500	332000	267200	238400	187400	165000	126000	93580	67180	
			60	50	30	105	420300	345000	279900	224300	199600	155800	136600	102900	74750	51170	
	1000		75	50	40	125	343400	280300	226100	180000	159700	123500	107600	79610			
			40	30	30	85	330500	272300	221800	178600	159300	125200	110300	84150	62530	44890	
			40	40	30	105	280300	230000	186600	149600	133100	103900	91050	68580	49830	34120	
	1200		40	40	30	125	228500	186500	150400	119800	106300	82130	71570	52970			
			50	50	40	85	479200	394800	321600	258900	231000	181500	159800	122100	90670	65090	
			60	50	40	105	406300	333500	270600	216800	193000	150700	132100	99440	72260	49470	
			75	60	40	125	331200	270300	218000	173600	154100	119100	103800	76800			
68VS/4B 68VS/6B	800	87.87	60	60	50	85	578400	476500	388200	312400	278800	219100	192900	147300	109500	78560	
			75	60	50	105	490400	402500	326600	261700	232900	181800	159400	120100	87210	59700	
			75	60	50	125	399800	326300	263200	209500	186000	143800	125300	92690			
	1000		40	40	30	85	422700	348300	283800	228500	203900	160300	141200	107900	80210	57700	
			50	40	30	105	355200	291500	236500	189500	168700	131700	115500	86950	63210	43320	
			50	50	40	125	286600	233900	188600	150100	133200	103000	89670	66310			
	1200		60	50	50	85	612800	505100	411500	331300	295600	232400	204700	156400	116300	83660	
			75	60	50	105	515000	422700	342900	274800	244500	190900	167400	126100	91650	62810	
			75	60	50	125	415600	339100	273400	217700	193200	149300	130100	96150			
			75	60	60	85	739600	609500	496700	399900	356800	280500	247000	188800	140400	101000	
90VS	800	131.81	100	75	60	105	621500	510100	413900	331700	295100	230400	202000	152200	110700	75800	
			100	75	60	125	501500	409200	330000	262700	233100	180200	157000	116100			
			50	50	40	85	490200	404000	329200	265000	236500	185900	163700	125100	93020	66920	
	1000		60	50	40	105	411900	338100	274300	219800	195600	152700	133900	100900	73310	50240	
			75	50	40	125	332400	271200	218700	174100	154500	119400	104000	76910			
			75	75	50	85	710800	585700	477300	384200	342900	269600	237400	181400	134900	97030	
	1200		90	75	60	105	597200	490200	397700	318700	283600	221400	194100	146300	106300	72800	
			100	100	60	125	481900	393200	317100	252500	224000	171300	150800	111600			
			100	100	60	85	857800	706900	576000	463700	413800	325300	286500	218900	162800	117100	
			100	100	70	105	720800	591600	480000	384600	342300	267200	234300	176500	128300	87910	
100VS	800	151.64	100	100	70	125	581600	474600	382700	304700	270300	208900	182000	134600			
			60	50	40	85	559400	461000	375600	302400	269800	212100	186800	142700	106100	76280	
			-	60	50	125	469700	385500	312800	250600	223000	174100	152600	115000	83510	57200	
	1000		75	75	60	85	811100	668400	544600	438400	391200	307500	270800	206900	153800	110600	
			100	75	60	105	681100	559000	453500	363400	323300	252400	221300	166700	121100	82930	
			-	100	60	125											
	1200		100	100	75	85	978800	806600	657200	529100	472100	371100	326800	249			

R22

■ Performance data are based on AHR1540 and 60 Hz operation, relating to 65 °F return gas temperature without liquid subcooling

■ * Recommended power

■ Les données de puissance se basent sur AHR1540 et fonctionnement à 60 Hz, se référant à une température du gaz d'aspiration de 65 °F sans sous-refroidissement de liquide

■ * Puissance recommandée

■ Datos de rendimiento se basan de AHR1540 y en funcionamiento con 60 Hz, referidos a temperatura de gas de aspiración de 65 °F sin subenfriamiento del líquido

■ * Potencia recomendada

Model Modèle Modelo	r.p.m. tr / mn r.p.m.	Swept volume Cylindrée Cilindrada	kW *			Cond. Temp. Temp. Cond. Temp. Cond.	Q [BTU/h]	Refrigerating capacity Puissance frigorifique - Potencia frigorífica									
			Power to install Puissance à installer Potencia para instalar					Evaporating temperature Température d'évaporation / Temperatura de evaporación [°F]									
								C			S			B			
			[in³]	C	S			B	[°F]	40	30	20	10	5	-5	-10	-20
1HVS	800	4.64	1.1	1.1	0.6	85	13030	10660	8620	6860	6090	4730	4140	3100	2250	1560	
			1.1	0.7	0.7	105	11510	9370	7520	5940	5250	4030	3500	2570	1810	1190	
	1.5		0.7	0.7	125	10000	8070	6430	5030	4420	3340	2870	2060				
	1000		1.1	1.1	0.6	85	16280	13330	10770	8580	7620	5910	5170	3880	2810	1950	
			1.1	1.1	0.7	105	14390	11710	9400	7430	6560	5030	4370	3210	2260	1480	
	1450		2.2	1.1	1.1	125	12490	10090	8030	6290	5520	4170	3590	2570			
1.5		1.5	0.7	85	23610	19320	15620	12440	11040	8570	7490	5620	4080	2830			
2GVS	800	10.37	1.5	1.1	1.1	105	20860	16980	13630	10770	9510	7300	6330	4660	3280	2150	
			2.2	1.1	1.1	125	18110	14630	11650	9110	8000	6050	5200	3720			
	3		2	2	85	28880	23650	19140	15260	13550	10530	9210	6910	5010	3460		
	1000		3	2.5	2	105	25430	20720	16660	13190	11670	8970	7790	5730	4030	2610	
			3	2.5	2	125	22040	17840	14240	11180	9830	7460	6430	4610			
	1450		3	3	3	85	36100	29560	23920	19070	16940	13160	11510	8640	6260	4320	
3.5		3	2.5	105	31780	25900	20830	16490	14580	11210	9740	7170	5040	3270			
3LVS	800	21.42	3.5	3	2.5	125	27540	22290	17800	13980	12290	9330	8030	5760			
			5.5	4	3	85	52340	42860	34690	27650	24560	19090	16690	12520	9080	6260	
	1000		5.5	5.5	4	105	46080	37560	30200	23910	21140	16250	14120	10390	7300	4730	
			5.5	5.5	4	125	39940	32320	25810	20260	17820	13520	11640	8360			
	1450		4	4	3	85	55440	45380	36710	29240	25960	20140	17600	13180	9520	6530	
			5.5	4	3	105	48620	39620	31840	25190	22620	17100	14840	10900	7640	4920	
41VSR 41VSM/3B 41VSM/4B	800	34.17	5.5	5.5	4	125	42000	33980	27140	21300	18730	14210	12230	8770			
			5.5	5.5	4	85	69300	56730	45880	36550	32450	25180	22000	16470	11900	8160	
	1000		7.5	5.5	4	105	60780	49520	39790	31490	27830	21370	18550	13620	9540	6150	
			10	7.5	5.5	125	52490	42480	33920	26620	23410	17760	15290	10960			
	1200		7.5	5.5	5.5	85	83160	68070	55060	43860	38940	30210	26400	19760	14280	9790	
			10	7.5	5.5	105	72930	59420	47750	37790	33390	25640	22260	16350	11450	7380	
51VSR 51VSM	800	57.91	10	7.5	5.5	125	62990	50970	40700	31940	28090	21310	18340	13160			
			10	7.5	5.5	85	95010	77830	63030	50290	44700	34780	30450	22910	16670	11560	
	1000		10	10	7.5	105	84390	68920	55550	44150	39120	30260	26380	19620	14010	9340	
			15	10	10	125	74130	60270	48430	38340	33890	26080	22660	16680			
	1200		10	10	7.5	85	118800	97290	78780	62860	55870	43480	38060	28630	20830	14450	
			10	10	7.5	105	105500	86140	69440	55190	48900	37820	32980	24520	17520	11680	
63VS/4B 63VS/6B 63VSC/6B	800	75.97	10	10	10	125	92660	75340	60540	47920	42370	32590	28320	20850			
			10	10	10	85	142600	116800	94540	75430	67040	52170	45670	34360	25000	17340	
	1000		15	15	10	105	126600	103400	83330	66220	58680	45380	39570	29430	21020	14010	
			15	15	15	125	111200	90410	72650	57500	50840	39110	33990	25020			
	1450		15	15	15	85	161300	132100	107000	85330	75840	59020	51660	38870	28280	19610	
			20	15	15	105	143200	117000	94270	74920	66390	51350	44770	33290	23780	15850	
68VS/4B 68VS/6B	800	87.87	20	20	15	125	125800	102300	82190	65050	57520	44250	38450	28300			
			15	15	15	85	201600	165100	133700	106700	94800	73780	64580	48590	35350	24520	
	1000		20	15	15	105	179000	146200	117900	93650	82980	64180	55960	41610	29720	19820	
			20	20	15	125	157300	127900	102800	81320	71890	55310	48060	35380			
	1200		20	20	20	85	241900	198200	160500	128000	113800	88530	77490	58300	42420	29420	
			25	20	20	105	214800	175500	141400	112400	99580	77020	67150	49940	35670	23780	
81VS	800	113.81	25	25	20	125	188700	153500	123300	97580	86270	66370	57670	42450			
			30	30	25	85	261200	214200	173700	138900	123600	96500	84660	64050	46990	33030	
	1000		40	30	25	105	233100	190700	154100	122800	109000	84680	74060	55520	40140	27330	
			40	40	25	125	205900	167800	135200	107500	95210	73710	64300	47860			
	1450		30	25	20	85	378700	310600	251900	201400	179300	140000	122800	92880	68140	47890	
			30	30	20	105	338000	276500	223400	178100	158100	122800	107400	80500	58210	39630	
90VS	800	131.81	40	40	25	125	298600	243300	196100	155800	138100	106900	93240	69390			
			40	30	25	85	457100	374900	304000	243100	216300	168900	148200	112100	82230	57790	
	1000		50	40	30	105	408000	333700	269600	214900	190800	148200	129600	97150	70250	47820	
			50	40	30	125	360300	293600	236600	188000	166700	129000	112600	83750			
	1450		30	25	20	85	302900	248400	201500	161100	143400	112000	98180	74290	54500	38300	
			30	30	20	105	270400	221200	178700	142400	126400	98210	85890	64380	46560	31690	
100VS	800	151.64	40	40	30	125	238800	194600	156800	124600	110500	85480	74580	55510			
			40	30	25	85	439200	360200	292100	233600	207900	162300	142400	107800	79020	55540	
	1000		50	40	30	105	392000	320700	259100	206500	183300	142400	124600	93360	67510	45960	
			60	50	30	125	346300	282200	227400	180700	160200	124000	108200	80480			
	1450		50	50	40	85	530100	434700	352600	281900	250900	195900	171900	130000	95370	67030	
			60	50	40	105	473100	387000	312700	249200	221200	171900	150300	112700	81470	55460	
110VS	800	175.87	60	50	40	125	417900	340500	274400	218100	193300	149600	130500	97130			
			60	50	40	85	391800	321300	260600	208400	185400	144800	127000	96080	70490	49540	
	1000		40	40	25	105	349700	286000	231100	184200	163500	127100	111100	83270	60220	40990	
			50	40	30	125	308900	251700	202800	161200	142900	110600	96450	71790			
	1450		50	40	40	85	568100	465900	377800	302100	268900	209900	184200	139400	102200	71830	
			60	50	40	105	507000	414700	335100	267000	237100	184200	161100	120800	87310	59440	

Range Serie Rango	Model Modèle Modelo	r.p.m. tr / mn r.p.m.	Cond. Temp. Temp. Cond. Temp. Cond.	Q [BTU/h]	Capacità frigorifera Refrigerating capacity Potencia frigorífica							
					Evaporating temperature Température d'évaporation / Temperature de evaporación [°F]							
				[°F]	-15	-20	-30	-40	-50	-60	-70	-75
2S-VS Without Liquid Subcooler	2S-81VS	1450	90	122217	109750	86798	66892	51445	38988	28467	24132	
			105	108668	97253	75827	57191	43988	33864	-	-	
			120	94027	83716	64759	47633	36669	27827	-	-	
	2S-90VS	1450	90	141700	127143	100657	77557	59620	44804	32829	27852	
			105	125863	112415	87912	66231	50922	38275	-	-	
			120	108947	97002	75072	55190	42512	32014	-	-	
2S-VS With Liquid Subcooler	2S-81VS	1450	90	142324	130174	107089	85816	68614	53377	40655	35138	
			105	134914	123083	100361	78862	63160	49174	-	-	
			120	127569	115885	93556	71814	57819	45458	-	-	
	2S-90VS	1450	90	165023	150949	124187	99590	79591	61880	47168	40736	
			105	156458	142751	116401	91581	73230	57077	-	-	
			120	147998	134394	108517	83288	67009	52715	-	-	

R404A
R507
2S-VS

Range Serie Rango	Model Modèle Modelo	r.p.m. tr / mn r.p.m.	Cond. Temp. Temp. Cond. Temp. Cond.	Q [BTU/h]	Capacità frigorifera Refrigerating capacity Potencia frigorífica							
					Evaporating temperature Température d'évaporation / Temperature de evaporación [°F]							
					[°F]	-15	-20	-30	-40	-50	-60	-70
2S-VS Without Liquid Subcooler	2S-81VS	1450	90	124596	114858	92650	74021	53691	36882	26057	19815	
			105	119650	110258	90109	73497	51479	34432	26148	19794	
			120	119005	107102	88165	73067	48680	32733	26200	19764	
	2S-90VS		90	143383	132754	106483	84187	61470	42360	29581	22552	
			105	136933	126550	102574	82291	59159	40159	29071	22086	
			120	134260	121897	99519	80964	55717	38338	28703	21518	
2S-VS With Liquid Subcooler	2S-81VS	1450	90	141455	132508	108984	88190	66270	46663	30681	23440	
			105	139143	130438	107269	86381	64237	44348	30227	23066	
			120	136937	128407	105567	84809	62427	43388	29662	22687	
	2S-90VS		90	164122	153662	126357	102395	76834	54117	35627	27207	
			105	161359	151139	124291	100175	74310	51395	35049	26709	
			120	158831	148880	122391	98288	72327	50290	34379	26241	

R22
2S-VS

▪ Preliminary data

- Performance data with liquid subcooling.
- 68 °F suction gas temperature and 0 °F liquid subcooling at the outlet of the condenser
- Use with R22 only where permitted by national legislation
- Never mix ester oils with different oils

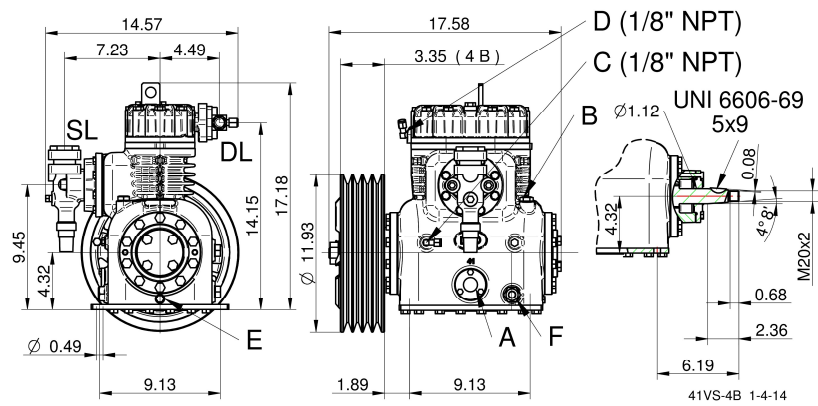
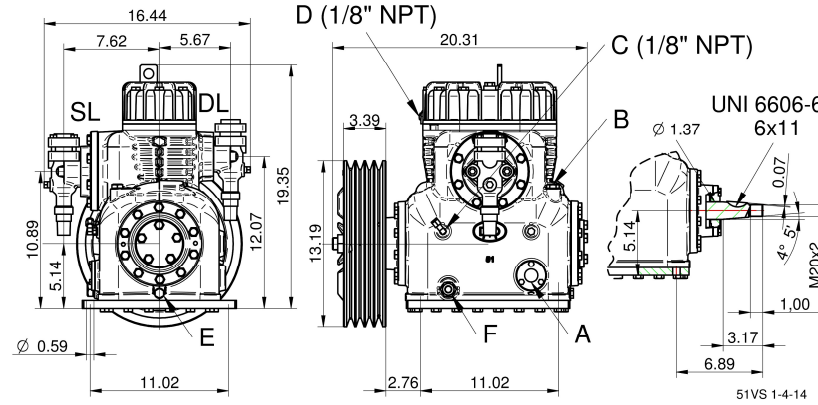
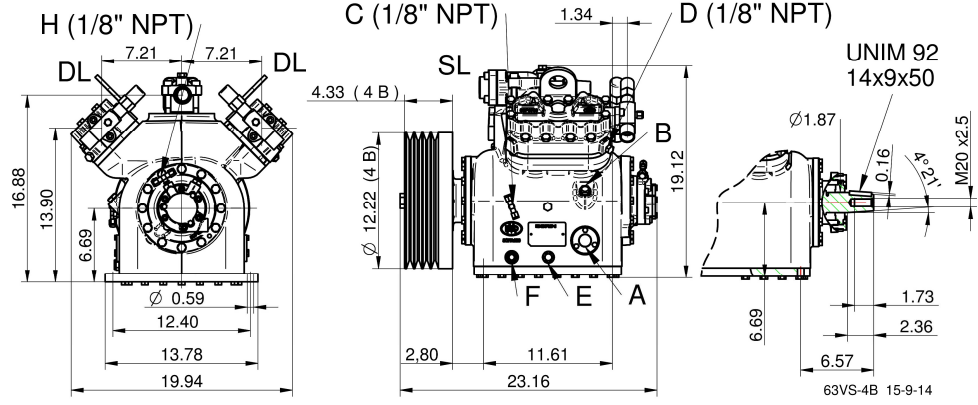
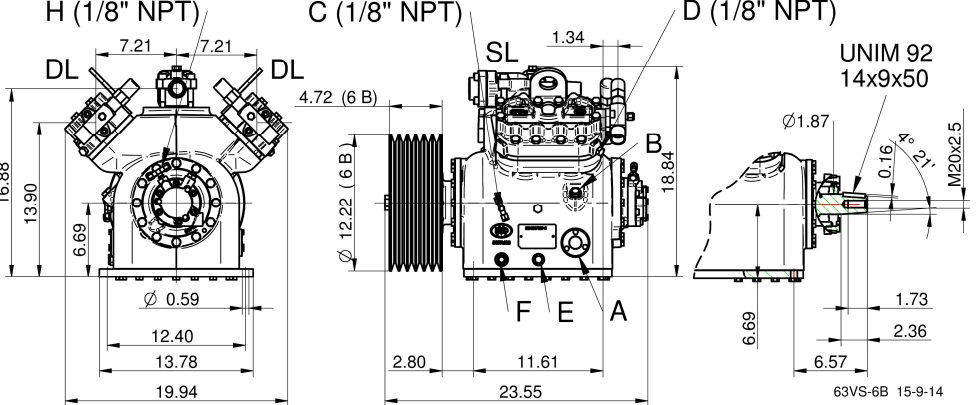
▪ Données préliminaires

- Données de puissance avec sous-refroidissement de liquide.
- 68 °F de température du gaz d'aspiration et sous-refroidissement de liquide 0 °F au sortie du condenseur.
- Utiliser avec R22 seulement lorsque cela est autorisé par la législation nationale
- Ne mélanger jamais ester huiles avec different huiles

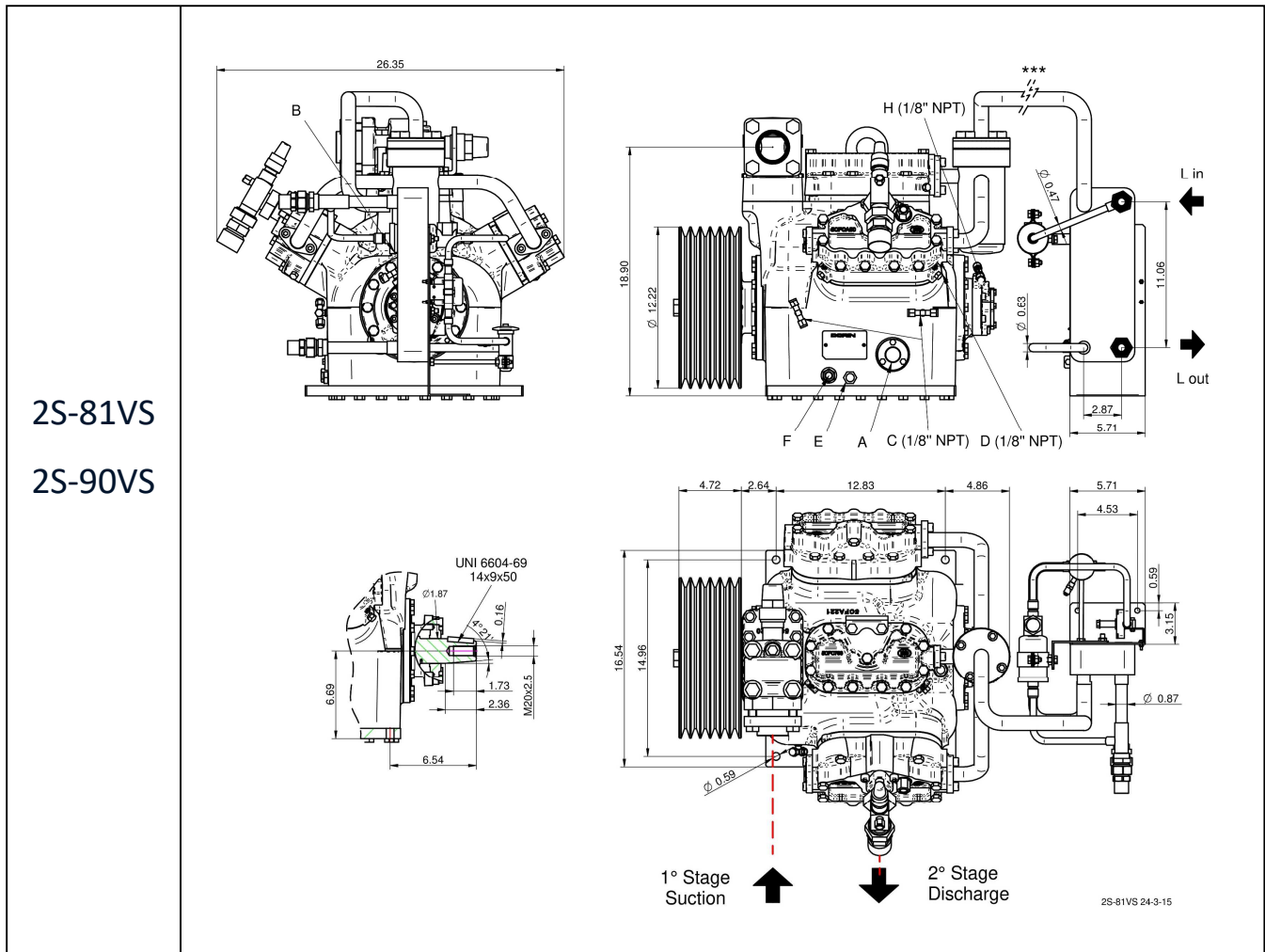
▪ Datos preliminares

- Datos de rendimiento con subenfriamiento de líquido
- Temperatura del gas de aspiración a 68 °F y subenfriamiento de líquido de 0 °F en la salida del condensador.
- Uso con R22 solamente si lo permite la legislación nacional
- No mezcle nunca ésteres de aceites con aceite diferentes

1HVS	Technical drawing of the 1HVS valve. It includes three views: front, side, and end. Dimensions are provided in inches. Key features include ports D (1/8" NPT) and C (1/8" NPT), and a UNI6606-69 4x6.5 component. Dimensions include 6.54, 0.32, 11.13, 3.39, 5.51, 1.57, 6.18, 10.12, 3.38, 9.88, 6.24, 3.94, 2.05, 1.7, 0.33, 5.1, 3.02, 0.75, 0.98, 0.87, 0.07, 7°, M8 x1.25, and 1HVS 31-3-14.
2GVS	Technical drawing of the 2GVS valve. It includes three views: front, side, and end. Dimensions are provided in inches. Key features include ports D (1/8" NPT) and C (1/8" NPT), and a UNI6606-69 4x6.5 component. Dimensions include 7.60, 11.97, 3.39, 0.33, 1.57, 6.18, 11.36, 3.98, 10.71, 6.89, 5.12, 1.89, 0.33, 0.75, 0.98, 0.87, 0.07, 7°, M8 x1.25, and 2GVS 1-4-14.
3LVS	Technical drawing of the 3LVS valve. It includes three views: front, side, and end. Dimensions are provided in inches. Key features include ports C (1/8" NPT) and D (1/8" NPT), and a UNI6606-69 6x9 component. Dimensions include 1.11, 13.28, 7.41, 5.28, 14.46, 2.13, 10.63, 1.22, 8.90, 15.36, 3.39, 0.43, 3.75, 1.44, 1.18, 0.08, 4°, M10 x1.25, and 3LVS 1-4-14.
41VSR 41VSM/ 3B	Technical drawing of the 41VSR/41VSM/3B valve. It includes three views: front, side, and end. Dimensions are provided in inches. Key features include ports D (1/8" NPT) and C (1/8" NPT), and a UNI 6606-69 5x9 component. Dimensions include 14.57, 7.23, 4.49, 9.45, 4.32, 0.49, 9.13, 14.15, 17.18, 11.93, 1.89, 9.13, 16.84, 2.60 (3 B), 0.68, 2.36, 6.19, 4.32, 0.08, 4°, M20x2, and 41VS-3B 1-4-14.

41VSM/4 B	 Technical drawing of the 41VSM/4 B pump. It includes three views: front, side, and a detail of the UNI 6606-69 5x9 component. Dimensions are provided in millimeters. Key features include ports D (1/8" NPT), C (1/8" NPT), and a shaft with M20x2 threads. The detail view shows a 4° taper and a 0.08 mm gap.
51VSR 51VSM	 Technical drawing of the 51VSR and 51VSM pumps. It includes three views: front, side, and a detail of the UNI 6606-69 6x11 component. Dimensions are provided in millimeters. Key features include ports D (1/8" NPT) and C (1/8" NPT), and a shaft with M20x2 threads. The detail view shows a 4° taper and a 0.07 mm gap.
63VS/4B	 Technical drawing of the 63VS/4B pump. It includes three views: front, side, and a detail of the UNIM 92 14x9x50 component. Dimensions are provided in millimeters. Key features include ports H (1/8" NPT), C (1/8" NPT), and D (1/8" NPT), and a shaft with M20x2.5 threads. The detail view shows a 4° taper and a 0.16 mm gap.
63VS/6B	 Technical drawing of the 63VS/6B pump. It includes three views: front, side, and a detail of the UNIM 92 14x9x50 component. Dimensions are provided in millimeters. Key features include ports H (1/8" NPT), C (1/8" NPT), and D (1/8" NPT), and a shaft with M20x2.5 threads. The detail view shows a 4° taper and a 0.16 mm gap.

63VSC/6 B 68VS	Technical drawings of the 63VSC/6 B 68VS unit. The front view shows a height of 18.17 and a base width of 19.94. The side view shows a total width of 23.93. The detail view shows a mounting bracket with dimensions 1.73, 2.36, and 6.57. The unit is labeled UNIM 92 14x9x50.
81VS 90VS	Technical drawings of the 81VS 90VS unit. The front view shows a height of 22.61 and a base width of 22.73. The side view shows a total width of 25.74. The detail view shows a mounting bracket with dimensions 1.73, 2.36, and 6.54. The unit is labeled UNI 6604-69 14x9x50.
100VS 110VS	Technical drawings of the 100VS 110VS unit. The front view shows a height of 62.7 and a base width of 23.77. The side view shows a total width of 27.71. The detail view shows a mounting bracket with dimensions 1.73, 2.36, and 6.37. The unit is labeled 2 x UNI 6604-69 14x9x50.



- Subcooler kit supplied loose. Position defined by customer
- Kit de refroidisseur fourni lâche. Position définie par le client
- Kit de subenfriamiento suministrado suelto. Posición definida por el cliente

*** Interstage injection line (not supplied)

*** Ligne d'injection intermédiaire (non fourni)

*** Línea de inyección entre fases (no suministrada)

A - Oil sight	A - Voyant d'huile	A - Visor aceite
B - Oil charge plug	B - Bouchon charge huile	B - Tapón para aceite
C - Low pressure tap	C - Prise basse pression	C - Toma baja presión
D - High pressure tap	D - Prise haute pression	D - Toma alta presión
E - Oil drain plug	E - Bouchon vidange d'huile	E - Tapón vaciado aceite
F - Crankcase heater	F - Resistance carter	F - Resistencia cárter
H - Oil pressure tap	H - Prise pression huile	H - Toma alta presión
DL - Discharge service valve	DL - Vanne de refoulement	DL - Válvula servicio descarga
SL - Suction service valve	SL - Vanne aspiration	SL - Válvula servicio aspiración
Lin - Liquid Inlet	Lin - Entrée Liquide	Lin - Entrada líquido
Lout - Liquid outlet	Lout - Sortie Liquide	Lout - Salida líquido



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