

# Referencias Cruzadas



[www.emersonclimate.com.mx](http://www.emersonclimate.com.mx)

## INDICE

### Filtros Deshidratadores Sellados

EK – Premium Línea de Líquido Sellados .....	3
TD - Línea de Líquido Sellados .....	3
BOK HH - Línea de Líquido Sellados .....	3
BFK - Bidireccional Línea de Líquido Sellados .....	3
ASK-HH - Línea de Succión Sellados .....	4
ASD - Línea de Succión Sellados .....	4
SFD - Línea de Succión Sellados .....	4
ASF - Filtro Línea de Succión Sellados .....	4
Domésticos y Comerciales Soldables de Cobre .....	4
Sellados y Recargables de Cobre .....	4
Per-sílica .....	4

### Filtros Deshidratadores Recargables

TD - Línea de Líquido de 24 y 42 pulg <sup>3</sup> .....	5
STAS - Línea de Líquido y Succión de 48 pulg <sup>3</sup> .....	5
ADKS - Línea de Líquido y Succión de 100 pulg <sup>3</sup> .....	5
Piedras Desecantes .....	5
BTAS – De Bronce para Línea de Succión .....	5
Cartuchos de Repuestos para BTAS .....	5

### Indicadores de Líquido y Humedad

HMI - Indicadores de Líquido y Humedad .....	5
IHL - Indicadores de Líquido y Humedad .....	5
Probador de Acidez Universal .....	6

### Válvulas de Thermo Expansión

Serie AFA .....	6
Serie AVT .....	6
Serie TI .....	6
Serie T .....	6
Serie HF .....	7
Carga Z Baja Temperatura .....	7

### Válvulas de Solenoide

100RB .....	8
200RB .....	7
240RA .....	8
OPR / IPR / EPRB - Reguladoras de Presión .....	8

### Controles de Presión y Temperatura

PS1 - Controles de Baja Presión .....	8
PS1 - Controles de Alta Presión .....	8
PS2 - Controles de Alta y Baja Presión .....	8
FD113 - Controles de Presión Diferencial de Aceite .....	8
EC1 - Controles Electrónicos de Temperatura .....	8
TS1 - Termostato Universal .....	8

### Termostatos para Aire Acondicionado y Refrigeración WHITE RODGERS. .... 9

### Controles de Aceite

SA / SAS - Separadores de Aceite .....	9
OLC - Reguladores Mecánicos de Nivel de Aceite .....	9
AOR - Depósitos de Aceite .....	9
Filtros para Línea de Aceite Sellado .....	9

### Acumuladores de Succión y Tanques

AS - Acumuladores de Succión .....	10
TR-100 - Tanques de Servicio para Refrigerantes .....	9

### Válvulas Manuales

Válvulas de Paso Tipo Diafragma - RDHP .....	10
Válvulas de Paso Tipo Bola .....	10
Válvulas Check .....	10

### Motores EMERSON. .... 10

### Motores MOTORVENCA. .... 10



**EK - Filtro Deshidratador Premium  
Sellado para la Línea de Líquido  
con Desecante Compactado**



EMERSON	SPORLAN	EMERSON	SPORLAN
EK-032	C-032	EK-164	C-164
EK-032 S	C-032 S	EK-164 S	C-164 S
EK-032 SVCAP	C-032-CAP-T	EK-165	C-165
EK-032 FM	C-032-FM	EK-165 S	C-165 S
EK-032 MF	---	EK-167 S	C-167-S
EK-033	C-033	EK-303	C-303
EK-033 S	C-033-S	EK-303 S	C-303 S
EK-052	C-052	EK-304	C-304
EK-052 MF	---	EK-304 S	C-304 S
EK-052 S	C-052 S	EK-305	C-305
EK-053	C-053	EK-305 S	C-305 S
EK-053 S	C-053 S	EK-306 S	C-306-S
EK-082	C-082	EK-307 S	C-307 S
EK-082 S	C-082 S	EK-309 S	C-309-S
EK-0825 S	C-0825-S	EK-413	C-413
EK-083 MF	---	EK-414	C-414
EK-083	C-083	EK-414 S	C-414 S
EK-083 S	C-083 S	EK-415	C-415
EK-084	C-084	EK-415 S	C-415 S
EK-084 S	C-084 S	EK-417 S	C-417 S
EK-162	C-162	EK-419 S	C-419-S
EK-162 S	C-162-S	EK-757 S	---
EK-1625 S	C-1625-S	EK-759 S	---
EK-163	C-163		
EK-163 S	C-163 S		

Ver Catálogo CNP0409A pag. 3

**TD - Filtro Deshidratador Sellado  
para la Línea de Líquido  
con Bloque Desecante**



EMERSON	SPORLAN	DANFOSS	HERMETIK
TD-032	C-032	DCL-032	HDV-032
TD-032 S	C-032 S	DCL-032 S	---
TD-033	C-033	DCL-033	---
TD-052	C-052	DCL-052	HDV-052
TD-052 S	C-052 S	DCL-052 S	HDV-052 S
TD-053	C-053	DCL-053	HDV-053
TD-053 S	C-053 S	DCL-053 S	HDV-053 S
TD-082	C-082	DCL-082	HDV-082
TD-082 S	C-082 S	DCL-082 S	HDV-082 S
TD-083	C-083	DCL-083	HDV-083
TD-083 S	C-083 S	DCL-083 S	HDV-083 S
TD-084	C-084	DCL-084	---
TD-084 S	C-084 S	DCL-084 S	---
TD-162	C-162	DCL-162	---
TD-163	C-163	DCL-163	HDV-163
TD-163 S	C-163 S	DCL-163 S	HDV-163 S
TD-164	C-164	DCL-164	HDV-164
TD-164 S	C-164 S	DCL-164 S	HDV-164 S
TD-165	C-165	DCL-165	HDV-165
TD-165 S	C-165 S	DCL-165 S	HDV-165 S
TD-303	C-303	DCL-303	---
TD-303 S	C-303 S	DCL-303 S	---
TD-304	C-304	DCL-304	HDV-304
TD-304 S	C-304 S	DCL-304 S	HDV-304 S
TD-305	C-305	DCL-305	HDV-305
TD-305 S	C-305 S	DCL-305 S	HDV-305 S
TD-307 S	C-307 S	---	HDV-307 S
TD-414	C-414	DCL-414	---
TD-414 S	C-414 S	DCL-414 S	---
TD-415	C-415	DCL-415	HDV-415
TD-415 S	C-415 S	DCL-415 S	HDV-415 S
TD-417 S	C-417 S	---	HDV-417 S
TD-605	---	---	HDV-605
TD-605 S	---	---	HDV-605 S
TD-607 S	C-607 S	DCL-607	HDV-607 S
TD-609 S	C-609 S	DCL-609	---
TD-757 S	---	DCL-757	HDV-757 S
TD-759 S	---	DCL-759	---

Ver Catálogo CNP0409A pag. 5

**BOK - Filtro Deshidratador Sellado para Línea de  
Líquido con Bloque Desecante para Limpieza del  
Sistema Después de una Quemadura de Compresor**

EMERSON ANTERIOR	EMERSON NUEVO	SPORLAN
THH-082	BOK-082-HH	C-082-HH
THH-82 S	---	C-082-S-HH
THH-083	BOK-083-HH	C-083-HH
THH-083 S	---	C-083-S-HH
THH-162	BOK-162-HH	C-162-HH
THH-163	BOK-163-HH	C-163-HH
THH-163 S	BOK-163S-HH	C-163-S-HH
THH-164	BOK-164-HH	C-164-HH
THH-164 S	BOK-164S-HH	C-164-S-HH
THH-165	BOK-165-HH	C-165-HH
THH-165 S	BOK-165S-HH	C-165-S-HH
THH-303	BOK-303-HH	C-303-HH
THH-304	BOK-304-HH	C-304-HH
THH-304 S	BOK-304S-HH	C-304-S-HH
THH-305	BOK-305-HH	C-305-HH
THH-305 S	BOK-305S-HH	C-305-S-HH
THH-414	BOK-414-HH	C-414-HH
THH-415	BOK-415-HH	C-415-HH
THH-415 S	BOK-415S-HH	C-415-S-HH
THH-417 S	BOK-417S-HH	C-417-S-HH

Ver Catálogo CNP0409A pag. 8



BOK-HH

**BFK - Filtro Deshidratador Bi-Direccional  
para la Línea de Líquido con Bloque Desecante**

EMERSON	SPORLAN	EMERSON	SPORLAN
BFK-052	---	BFK-164 S	HPC-164-S-HH
BFK-052 S	---	BFK-165	HPC-165-HH
BFK-053	---	BFK-165 S	HPC-165-S-HH
BFK-053 S	---	BFK-303	---
BFK-083	HPC-103	BFK-303 S	---
BFK-083 S	HPC-103-S	BFK-304	---
BFK-084	HPC-104	BFK-304 S	---
BFK-084 S	HPC-104-S	BFK-305	---
BFK-085	---	BFK-305 S	---
BFK-085 S	---	BFK-306 S	---
BFK-163	HPC-163-HH	BFK-307 S	---
BFK-163 S	HPC-163-S-HH	BFK-309 S	---
BFK-164	HPC-164-HH		

Ver Catálogo CNP0409A pag. 10



BFK

### ASK-HH - Filtro Deshidratador Sellado Línea de Succión con Bloque Deseccante

EMERSON	SPORLAN
ASK165S-VV-HH	C-165-S-T-HH
ASK166S-VV-HH	C-166-S-T-HH
ASK167S-VV-HH	C-167-S-T-HH
ASK306S-VV-HH	C-306-S-T-HH
ASK307S-VV-HH	C-307-S-T-HH
ASK309S-VV-HH	C-309-S-T-HH



Ver Catálogo CNP0409A pag. 12

### SFD - Filtro Deshidratador Sellado Línea de Succión con Deseccante Compactado para Limpieza de Sistema Después de Quemadura de Compresor

SFD



ASD



EMERSON ANTERIOR	EMERSON NUEVO	SPORLAN	DANFOSS
TS-083	SFD08F3-VV	---	DAS-083
TS-083 S	SFD08S3-VV	---	DAS-083 S
TS-084	SFD08F4-VV	---	DAS-084
TS-084 S	SFD08S4-VV	C-084-S-T-HH	DAS-084 S
TS-085	---	---	---
TS-085 S	SFD08S5-VV	---	DAS-085 S
---	SFD13F3-VV	---	---
---	SFD13S3-VV	---	---
TS-164	SFD13F4-VV	---	DAS-164
TS-164 S	SFD13S4-VV	C-164-S-T-HH	DAS-164 S
TS-165	SFD13F5-VV	---	DAS-165
TS-165 S	SFD13S5-VV	C-165-S-T-HH	DAS-165 S
TS-166 S	SFD13S6-VV	C-166-S-T-HH	---
TS-167 S	SFD13S7-VV	C-167-S-T-HH	DAS-167 S
TS-305	---	---	---
TS-305 S	ASD-35S5-VV	C-305-S-T-HH	DAS-305 S
TS-306 S	SFD27S6-VV	C-306-S-T-HH	---
TS-307 S	SFD27S7-VV	C-307-S-T-HH	DAS-307 S
TS-309 S	SFD27S9-VV	C-309-S-T-HH	DAS-309 S
TS-417 S	ASD-45S7-VV	C-417-S-T-HH	DAS-417 S
TS-419 S	ASD-50S9-VV	C-419-S-T-HH	DAS-419 S
TS-487 S	ASD-45S7-VV	---	---
TS-489 S	ASD-50S9-VV	C-439-S-T-HH	---
TS-4811 S	SFD54S11-VV	C-4311-S-T-HH	---
TS-4813 S	SFD54S13-VV	C-4313-S-T-HH	---

Ver Catálogo CNP0409A pag. 16 para SFD y pag. 14 para ASD

### ASF - Filtro Deshidratador Sellado Línea de Succión con Filtro

EMERSON ANTERIOR	EMERSON NUEVO	SPORLAN
TSF-283S	ASF-28S3-VV	---
TSF-284S	ASF-28S4-VV	---
TSF-285S	---	---
---	ASF-28S7	---
---	ASF-28S9	---
TSF-355	ASF-35F5-VV	---
TSF-355S	ASF-35S5-VV	SF-285-T
TSF-356S	---	SF-286-T
TSF-357S	---	SF-287-T
---	ASF-45F3-VV	---
TSF-456S	ASF-45S6-VV	---
TSF-457S	ASF-45S7-VV	---
TSF-459S	---	---
TSF-509S	ASF-50S9-VV	SF-489-T
TSF-5011S	---	SF-4811-T
TSF-5013S	---	SF-4813-T
---	ASF-64S17-VV	SF-6417-T
---	ASF-64S21-VV	ST-6421-T
TSF-7511S	ASF-75S11-VV	---
TSF-7513S	ASF-75S13-VV	---



Ver Catálogo CNP0409A pag. 18

### Filtros Deshidratadores Domésticos y Comerciales de Cobre



EMERSON	HERMETIK	EMERSON	HERMETIK
T-10-4	M-10-4	TL-20	---
T-10-4 DCK	M-10-4 DCK	T-25-4	M-25-4
TMO-100	---	T-25-4 DCK	M-25-4 DCK
PAQ-TMO-100	---	TL-25-4	---
T-210-4	---	T-50-4	M-50-4
TL-10	M-10-CL	T-50-38	---
TL-10 VC	M-10-VC	TF-10-4	F-10-4
TL-15	---	TF-10-38	---
T-20-4	---	TF-25-4	F-25-4

Ver Catálogo CNP0409A pag. 22

### Filtro Deshidratador Sellado y Recargable con Sílica Suelta



EMERSON	HERMETIK	EMERSON	HERMETIK
T-65-6	65-6	T-350-10	R-350-10
T-85-6	85-6	T-350-12	R-350-12
T-100-6	100-6	T-500-10	R-500-10
T-110-6	R-110-6	T-500-12	R-500-12
T-170-6	R-170-6	T-500-16	R-500-16
T-170-10	R-170-10	T-750-16	R-750-16
T-250-10	R-250-10	T-1000-16	R-1000-16

Ver Catálogo CNP0409A pag. 23

### Persílica

EMERSON	HERMETIK
TRS-800	FS-800
TRS-400	FS-400
TRS-Kg	---



Ver Catálogo CNP0409A pag. 23



**Filtros Deshidratadores Recargables  
Línea de Líquido**

EMERSON ANTERIOR	EMERSON NUEVO	SPORLAN	DANFOSS
TD-244	TD-244	---	---
TD-245	TD-245	---	---
TD-247	TD-247	---	---
TD-424	TD-424	C-R424	---
TD-425	TD-425	C-R425	---
TD-427	TD-427	C-R427	---
TD-1-485	STAS-485 T	C-485	DCR-485
TD-1-487	STAS-487 T	C-487	DCR-487
TD-1-489	STAS-489 T	C-489	DCR-489
TD-1-4811	STAS-4811 T	C-4811-G	DCR-4811
TD-1-4813	STAS-4813 T	C-4813-G	DCR-4813
TD-2-967	STAS-967 T	C-967	DCR-967
TD-2-969	STAS-969 T	C-969	DCR-969
TD-2-9611	STAS-9611 T	C-9611-G	DCR-9611
TD-2-9613	STAS-9613 T	C-9613-G	DCR-9613
---	STAS-9617 T	---	---
TD-3-1449	STAS-1449 T	C-1449	DCR-1449
TD-3-14411	STAS-14411 T	C-14411	DCR-14411
TD-3-14413	STAS-14413 T	C-14413-G	DCR-14413
---	STAS-14417 T	---	---
TD-4-1929	---	---	---
TD-4-19211	STAS-19211 T	C-19211	---
TD-4-19213	STAS-19213 T	C-19213	DCR-19213
TD-4-19217	STAS-19217 T	C-19217	DCR-19217
TD-30013	ADKS-30013 T	C-30013 / C-30013-G	---
TD-30017	ADKS-30017 T	C-30017-G	---
TD-30021	---	---	---
TD-30025	---	---	---
TD-40017	ADKS-40017 T	C-40017	---
TD-40021	ADKS-40021 T	C-40021-G	---
TD-40025	---	C-40025-G	---



Ver Catálogo  
CNP0409A  
pags. 26 a la 32

**Filtros Deshidratadores Recargables  
Línea de Succión**

EMERSON ANTERIOR	EMERSON NUEVO	SPORLAN
TD-489SV	---	RSF-489-T
TD-4811SV	STAS-4811 SV	RSF-4811-T
TD-4813SV	STAS-4813 SV	RSF-4813-T
TD-4817SV	STAS-4817 SV	RSF-4817-T
TD-4821SV	STAS-4821 SV	RSF-4821-T
TD-9617SV	STAS-9617 SV	RSF-9617-T
TD-9621SV	STAS-9621 SV	RSF-9621-T
TD-9625SV	STAS-9625 SV	RSF-9625-T
TD-30013SV	---	---
TD-30017SV	---	---
TD-30021SV	---	---
TD-30025SV	---	---
TD-40017SV	---	---
TD-40021SV	---	---
TD-40025SV	---	---

**Bloques Desecantes**

EMERSON ANTERIOR	EMERSON NUEVO	SPORLAN	HERMETIK	DANFOSS
H-24	H-24	---	---	---
H-42	H-42	RCW-42	---	---
RC-4864	RC-4864	RC 4864	P 800	48-DN
TD-48	TD-48	RC 4864	P 800	48-DN
TD-48H	H-48	RCW-48	P 800 W	---
TD-48C	TD-48C	RC-4864-HH	P 800 HH	48-DA
TD-HA-48	UK-48	---	---	---
F48-R	F48-R	RPE-48-BD	---	---
F-48	F-48	---	---	---
H-100	H-100	RC-10098	---	---
HC-100	HC-100	RC-10098-HH	---	---
HX-100	HX-100	RCW-100	---	---

**BTAS - Filtro Deshidratador Recargable  
de Bronce Línea de Succión**

EMERSON	SUPERIOR
BTAS-27 S-V	2CFA-14S
BTAS-39 S-V	3CFA-18S
BTAS-311 S-V	3CFA-22S
BTAS-313 S-V	3CFA-26S
BTAS-317 S-V	3CFA-34S
BTAS-411 S-V	4CFA-22S
BTAS-413 S-V	4CFA-26S
BTAS-417 S-V	4CFA-34S
BTAS-421 S-V	4CFA-42S
BTAS-517 S-V	5CFA-34S
BTAS-521 S-V	5CFA-42S
BTAS-525 S-V	5CFA-50S



BTAS



Cartucho  
de Repuesto

**Cartuchos De Repuesto para Filtro BTAS**

FILTRO		FILTRO DESHIDRATADOR	
EMERSON	SUPERIOR	EMERSON	SUPERIOR
A2-F	F25A	A2-FD	DF25A
A3-F	F35A	A3-FD	DF35A
A4-F	F45A	A4-FD	DF45A
A5-F	F55A	A5-FD	DF55A

Ver Catálogo CNP0409A pag. 34

**Indicadores  
De Líquido Y Humedad**



EMERSON	SPORLAN	DANFOSS	HERMETIK
HMIY-1MM2	SA 12	SGI-6	IL 14
HMIY-1MM3	SA 13	SGI-10	IL 38
HMIY-1MM4	SA 14	SGI-12	IL 12
HMIY-1MM5	SA 15	SGI-16	IL 58
HMIY-1TT2	SA 12 S	SGI-6 S	---
HMIY-1TT3	SA 13 S	SGI-10 S	IL 38S
HMIY-1TT4	SA 14 S	SGI-12 S	IL 12S
HMIY-1TT5	SA 15 S	SGI-16 S	IL 58S
HMIY-1TT7	SA 17 S	SGI-22 S	IL 78S
HMIY-1TT9	SA-19 S	---	---
HMIY-1FM2	SA 12 FM	SGI-6	---
HMIY-1FM3	SA 13 FM	SGI-10	---
HMIY-1FM4	SA 14 FM	SGI-12	---
HMIY-1MU2	---	---	---
HMIY-1MU3	SA 13 U	---	---
HMIY-1MU4	SA 14 U	---	---
HMIY-1MU5	SA 15 U	---	---
IHL-11 S	SA-211	---	---
IHL-13 S	SA-213	---	---

Ver Catálogo CNP0409A pags. 36 para HMI y pag. 38 para IHL

## Probador De Acidez



EMERSON	SPORLAN
AAKitUniv	TA-1

Ver Catálogo CNP0409A pag. 39

## Serie AFA

Válvulas de Thermo Expansión  
Un cuerpo conexión entrada 90°



EMERSON	SPORLAN	EMERSON	SPORLAN
<b>R-22</b>			
AFA(E)1/2 HC	FVE-1/2	AFA(E)2 HC	FVE-2
AFA(E)1 HC	FVE-1	AFA(E)3 HC	FVE-3
AFA(E)1 1/2 HC	FVE-1 1/2		
<b>R-502</b>			
AFA(E)-1/4RC	---	AFA(E)-11/2RC	---
AFA(E)-1/2RC	---	AFA(E)-2RC	---
AFA(E)-1RC	---	AFA(E)-3RC	---
<b>R-502 BAJA TEMPERATURA</b>			
AFA-1/2RZ	---		
AFA-1RZ	---		
AFA-11/2RZ	---		

Ver Catálogo CNP0409B pag. 12



## Serie AVT

Válvulas de Thermo Expansión  
Un cuerpo conexión entrada 35°

EMERSON	HERMETIK	EMERSON	HERMETIK
AVT-50 FC	VT 50	AVT-50 HC	VT 50
AVT-100 FC	VT 100	AVT-100 HC	VT 100
AVT-150 FC	VT 150	AVT-150 HC	VT 150
AVT-200 FC	VT 200	AVT-250 HC	VT 200
AVT-300 FC	VT 300	AVT-300 HC	VT 300

Ver Catálogo CNP0409B pag. 14

## Serie TI

Válvulas de Thermo Expansión  
de Orificios Intercambiables



VALVULA		ORIFICIOS	
EMERSON	DANFOSS	EMERSON	DANFOSS
TI-MW	TN2	ORIF-00	0X
TIE-MW	TEN2	ORIF-0	00
TI-HW	TX2	ORIF-1	01
TIE-HW	TEX2	ORIF-2	02
TI-SW	TS2	ORIF-3	03
TIE-SW	TES2	ORIF-4	04
		ORIF-5	05
		ORIF-6	06

Ver Catálogo  
CNP0409B pag. 16

## Serie T - Válvulas de Thermo Expansión Dos cuerpos desarmables conexiones en angulo soldar

EMERSON	SPORLAN	SAGINOMIYA	EMERSON	SPORLAN	SAGINOMIYA
<b>R-12</b>			<b>CARGA W</b>		
TCL(E)2 F	---	ATX 45023 D	TCL(E)3 HW	---	ATX 45023 D
TCL(E)3 F	---	ATX 45035 D	TCL(E)5 HW	---	ATX 45035 D
TCL(E)4 F	---	ATX 45045 D	TCL(E)7-1/2 HW	---	ATX 45045 D
TCL(E)6.5 F	---	ATX 57060 D	TCL(E)10 HW	---	ATX 57060 D
TCL(E)7.5 F	---	ATX 57080 D	TCL(E)12 HW	---	ATX 57080 D
<b>R-22</b>			TJL(E)14 HW	---	ATX 57080 D
TCL(E)2 H	---	ATX 45013 D	TJR(E)18 HW	---	ATX 71110 D
TCL(E)3 H	---	ATX 45023 D	TER(E)26 HW	MVE-26	ATX 71160 D
TCL(E)5 H	---	ATX 45035 D	THR100 HW	VVE-100	---
TCL(E)7.5 H	---	ATX 45045 D	<b>R-502</b>		
TCL(E)10 H	---	ATX 57060 D	TCL(E)7 R	---	ATX 57060 D
TCL(E)12 H	---	ATX 57080 D	TCL(E)8 R	---	ATX 57080 D
TJR(E)18 H	---	ATX 71110 D			
TER(E)22 H	MVE-21	ATX 71140 D			
TER(E)26 H	MVE-26	ATX 71160 D			
TER(E)35 H	MVE-34	ATX 12220 D			
TER(E)45 H	MVE-42	ATX 12270 D			
TIR(E)55 H	VVE-52	ATX 12330 D			
THR(E)75 H	VVE-70	ATX 12500 D			



ANGULO

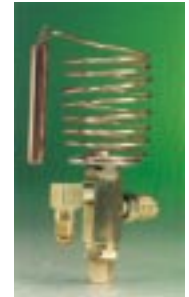


RECTA

Ver Catálogo  
CNP0409B pag. 26

**Serie HF - Válvulas de Thermo Expansión**  
**Un cuerpo conexión entrada 90°**

EMERSON	SPORLAN	EMERSON	SPORLAN	EMERSON	SPORLAN
<b>R-22</b>					
HF-1/4HC	BFV-AAA / GV-1/3	HF(E)3HC	BFVE-B / GVE-3	HF(E)S5-1/2HC	EBFVE-C
HF(E)1/4HC	BFVE-AAA / GVE-1/3	HF(E)5 1/2HC	BFVE-C / CVE-5	HF(E)S8HC	EBSVE-8
HF(E)1/2HC	BFVE-AA / GVE-1/2	HF(E)S1HC	EBFVE-A / EGVE-1	HF(E)S10HC	EBSVE-11
HF(E)1HC	BFVE-A / GVE-1	HF(E)S1 1/2HC	EBFVE-A / EGVE-1 1/2	HF(E)SC-1HC	SBFVE-A
HF(E)1 1/2HC	BFVE-A / GVE-1 1/2	HF(E)S2HC	EBFVE-B / EGVE-2	HF(E)SC-11/2HC	SBFVE-A
HF(E)2HC	BFVE-B / GVE-2	HF(E)S2 1/2HC	EBFVE-B	HF(E)SC-2HC	SBFVE-B
HF(E)2 1/2HC	BFVE-B	HF(E)S3HC	EBFVE-B / EGVE-3		
<b>R-404A</b>					
HF(E)1/2SC	BFSE-AA / GSE-1/2	HF(E)3 1/2SC	BFSE-C / CSE-3	HFSC-1/2SC	SBFS-A / EGS-1/2
HF(E)1SC	BFSE-A / GSE-1	HF(E)S2 SC	EBFSE-B / EGSE-2	HF(E)SC-1/2SC	SBFSE-A
HF(E)1 1/4SC	BFSE-B	HF(E)S3-1/2 SC	EBFSE-C	HF(E)SC-1SC	SBFSE-A
HF(E)1 1/2SC	BFSE-B / GSE-1 1/2	HF(E)S5 SC	EBSSE-6	HF(E)SC-11/2SC	SBFSE-B
HF(E)2SC	BFSE-B / GSE-2	HF(E)S10 SC	EBSSE-10		



Ver Catálogo  
CNP0409B pag. 19

**Válvulas de Thermo Expansión - Carga Z Baja Temperatura**

EMERSON	SPORLAN	EMERSON	SPORLAN	EMERSON	SPORLAN
<b>R-22</b>					
HF-1/2 HZ	BFV-AA / GV-1/2	HF(E)-1-1/2 HZ	BFVE-A / GVE-1 1/2	HF(E)S-2HZ	EBFVE-B / EGVE-2
HF-1 HZ	BFV-A / GV-1	HF(E)-2 HZ	BFVE-B / GVE-2	HF(E)S-2 1/2HZ	EBFVE-B
HF-1-1/2 HZ	BFV-A / GV-1 1/2	HF(E)-3 HZ	BFVE-B / GVE-3	HF(E)S-3HZ	EBFVE-B / EGVE-3
HF-2 HZ	BFV-B / GV-2 1/2	HF(E)-5-1/2 HZ	BFVE-C / CVE-5	HF(E)S-8 HZ	EBSVE-8
HF-3 HZ	BFV-B	HF(E)S-1HZ	EBFVE-A / EGVE-1	HF(E)S-10HZ	EBSVE-11
HF(E)-1/2 HZ	BFVE-AA / GVE-1/2	HF(E)S-1 1/2HZ	EBFVE-A / EGVE-1 1/2	HF(E)S-15HZ	EBSVE-15
HF(E)-1 HZ	BFVE-A / GVE-1				
<b>R-502</b>					
HF-1/2RZ	---	HF(E)-1RZ	---	HF(E)S-5RZ	---
HF-1RZ	---	HF(E)-2RZ	---	HF(E)S-10RZ	---
HF-11/2RZ	---	HF(E)-31/2RZ	---		
<b>R-404A</b>					
HF(E)-1/2 SZ	BFSE-AA / GSE-1/2	HF(E)S-1SZ	EBFSE-A / EGSE-1	HF(E)S-10SZ	EBSSE-10
HF(E)-1 SZ	BFSE-A / GSE-1	HF(E)S-1 1/2SZ	EBFSE-B / EGSE-1 1/2	HF(E)SC-1/2SZ	SBFSE-A
HF(E)-1-1/2 SZ	BFSE-B / GSE-1 1/2	HF(E)S-3 1/2SZ	EBFSE-C	HF(E)SC-1SZ	SBFSE-A
HF(E)-2 SZ	BFSE-B / GSE-2	HF(E)S-5SZ	EBSSE-6	HF(E)SC-1 1/2SZ	SBFSE-B
HF(E)-3-1/2 SZ	BFSE-C	HF(E)S-7SZ	EBSSE-6	HF(E)SC-2SZ	SBFSE-B
HF(E)S-1/2SZ	EBFSE-A / EGSE-1/2				

Ver Catálogo  
CNP0409B pag. 20

**Válvulas de Solenoide - 200RB**

EMERSON	SPORLAN	SAGINOMIYA	DANFOSS	EMERSON	SPORLAN	SAGINOMIYA	DANFOSS
<b>SIN OPERADOR MANUAL</b>				<b>SIN OPERADOR MANUAL</b>			
200RB2F2	A3F1	---	EVR3	200RB5T5	E10S250	---	---
200RB2F3	---	---	EVR3	200RB6F4	B10F2	SEV-1004BXF	EVR10
200RB2T2	E5S120	---	---	200RB6F5	---	---	EVR10
200RB2T3	E5S130	---	---	200RB6T4	E10S240	SEV-1004DXF	EVR10
200RB3F2	---	SEV-502BXF	---	200RB6T5	E14S250	---	EVR10
200RB3F3	B6F1	---	---	200RB 7T4	---	RMV-1004ESR	---
200RB3F4	---	---	---	200RB 7T5	E14S250	---	---
200RB3T2	---	---	---	200RB 7T7	---	---	EVR15
200RB3T3	B6S1, E6S130	---	EVR3	200RB 9T5	E19S250	RMV-1305ESR	---
200RB3T4	B6S1, E6S140	---	---	200RB 9T7	E19S270	SEV-1507DXF	EVR20
200RB4F3	B9F2	SEV-603BXF	EVR6	200RB 9T9	---	---	EVR20
200RB4T3	E9S230	SEV-603DXF	EVR6	200RB 12T7	E25S270	REV-2007DXF	---
200RB4T4	E9S240	---	EVR6	200RB 12T9	E25S290	REV-2011DXF	---
200RB4T5	---	---	---	<b>CON OPERADOR MANUAL</b>			
200RB5F4	B10F2	---	---	200RB4F3 M	MB9F2	---	---
200RB5F5	---	---	---	200RB6F4 M	MB10F2	---	---
200RB5T3	E9S230	---	---	200RB6F5 M	---	---	---
200RB5T4	E10S240	---	---				



Ver Catálogo  
CNP0409B pag. 43



## Válvulas de Solenoide - 100RB

Ver Catálogo CNP0409B pag. 41

EMERSON	SPORLAN	SAGINOMIYA	DANFOSS
100RB2F2	A3F1	RMV 302 BR	---
100RB2F3	---	RMV 303 BR	---
100RB2S2	A3S1, E3S120	---	EVR2
100RB2S3	A3S1, E3S130	---	EVR3, EVR2
100RB2S4	---	---	---

## Válvulas de Solenoide - 240RA

Ver Catálogo CNP0409B pag. 45



EMERSON	SPORLAN	SAGINOMIYA	DANFOSS
<b>SIN OPERADOR MANUAL</b>			
240RA8T5	E14S250	SEV-1205DXF	---
240RA8T7	---	RMV-1307ESR	EVR15
240RA 9T5	E19S250	RMV-1305ESR	---
240RA 9T7	E19S270	SEV-1507DXF	EVR20
240RA 9T9	---	---	EVR20
240RA 12T7	E25S270	REV-2007DXF	---
240RA 12T9	E25S290	REV-2011DXF	---
240RA 16T9	E34S290	REV-2511DXF	---
240RA 16T11	E34S2110	REV-2513DXF	---
240RA 20T11	---	REV-3213DXF	---
240RA 20T13	E42S2130	REV-3215DXF	---
240RA 20T17	E42S2170	---	---
<b>CON OPERADOR MANUAL</b>			
240RA8T5 M	ME14S250	---	---
240RA8T7 M	---	---	---
240RA9T5 M	ME19S250	---	---
240RA9T7 M	ME19S270	REV-M1507DXF	---
240RA9T9 M	---	---	---
240RA12T7 M	ME25S270	REV-M2007DXF	---
240RA12T9 M	ME25S290	REV-M2011DXF	---
240RA 16T9 M	ME34S290	REV-M2511DXF	---
240RA 16T11 M	ME34S2110	REV-M2513DXF	---
240RA 20T11 M	---	---	---
240RA 20T13 M	ME42S2130	REV-M3215DXF	---
240RA 20T17 M	ME42S2170	---	---



## Controles de Baja Presión

Ver Catálogo CNP0409C pag. 4

EMERSON	JOHNSON-PEEN	RIMSA	DANFOSS
PS1-A3K	P70CA-1, P70AB-2	SNS-C106S1	KP1-060-110101
PS1-A3A	P170AB-2, P170CA-1	SNS-C106	KP1-060-110166

## Controles de Alta Presión

Ver Catálogo CNP0409C pag. 5



EMERSON	JOHNSON-PEEN	RIMSA	DANFOSS
PS1-A5K	P70AA-118, 70CA-3	HNS-C130S1	KP5-060-117101
PS1-A5A	P170AA-118, P170CA-3	HNS-C130	KP5-060-117166
PS1-R5K	P70DA-1, P70KA-1	HNS-C130MS1	KP5-060-117301
PS1-R5A	P170DA-1	HNS-C130M	KP5-060-117366

## Válvulas Reguladoras de Presión

Ver Catálogo CNP0409B pags. de 48 a la 52



EMERSON	SPORLAN	DANFOSS
OPR 6 58 / 0-60	CROT-6 0/60	KVL-15
OPR 6 78 / 0-60	CROT-6 0/60	KVL-22
OPR 6 118 / 0-60	CROT-6 0/60	---
OPR-6 12 20-90	CROT-6 30/110	---
OPR-6 58 20-90	CROT-6 30/110	---
OPR-6 78 20-90	CROT-6 30/110	---
OPR-10 138 20-90	CROT-10 30/110	KVL-35
OPR 10 78/ 0-60	CROT-10 0/60	---
OPR 10 118/ 0-60	CROT-10 0/60	KVL-38
OPR 10 138/ 0-60	CROT-10 0/60	KVL-35
IPR-10 7/8 0-50	ORIT-10	KVP-22
IPR-10 1-1/8 0-50	ORIT-10	KVP-28
IPR-10 1-3/8 0-50	ORIT-10	KVP-35
IPR-10 7/8 30-100	ORIT-10	KVP-22
IPR-10 1-1/8 30-100	ORIT-10	KVP-28
IPR-10 1-3/8 30-100	ORIT-10	KVP-35
EPRB(S)12T9	SORIT-12	---
EPRB(S)16T11	SORIT-15	---
EPRB12T9	ORIT-12	---
EPRB16T11	ORIT-15	---
EPRB20T13	ORIT-20	---

## Controles de Alta y Baja Presión

Ver Catálogo CNP0409C pag. 6



EMERSON	JOHNSON-PEEN	RIMSA	DANFOSS
PS2-M7K	P70LB-1, P70MA-1	DNS-D306MS1	KP15-060-124301
PS2-M7A	P170LB-1, P170MA-1	DNS-D306M	KP15-060-124366



## Controles de Presión Diferencial de Aceite

Ver Catálogo CNP0409C pag. 8

EMERSON	JOHNSON-PEEN	RIMSA	DANFOSS
FD113-ZUK	P45NCA-1, P45NCA-8	ONS-C106S1	MP55-060B017201
FD113-ZU	P128AA-1, -2, -17; P145NCA-12, -82	ONS-C106	MP55-060B017266

## Controles Electrónicos de Temperatura



Ver Catálogo CNP0409C pag. 11

EMERSON	DANFOSS	JOHNSON CONTROLS	CROMO-ELECTRA
EC1-010	EKC-101	---	PS11R
EC1-020	EKC-201	---	CRT1100EC
EC1-040	EKC-301	MR4PM21-C	CRT3211T-K
ECT-123	---	---	CRTRC412
ECN-S30	---	---	---

## Termostato Universal

EMERSON	DANFOSS
TS1-E4F	UT-72

Ver Catálogo CNP0409C pag. 14





**Termostatos para Aire Acondicionado y Refrigeración**

EMERSON	HONEYWELL	JOHNSON	SAGINOMIYA
1E56-444	T834C-1541, T834C-2309, T834C-1137	---	---
1F56-444	T8034C-1234, T87F-4010, T834C-1558, T834C-1566, T834A-1261, T8034C-1093, T8034C-1275, T8034C-1424	---	---
1F56W-444	T8034C-1226, T87F-3855, T8034C-1424	---	---
1F56W-911	---	---	---
1F57-306	T874D-1165, T874A-1010, T874A-1036, T874A-1086, T874A-1150, T874A-1176, T874B-1019, T874C-1000, T874C-1018, T874D-1165, T874D-1223, T874F-1015, T874F-1155, T874E, Q674C	---	---
1F58-77	T841B-1000, T841A-1613, T841A-1050	---	---
1A10-651	T42B1027, T26J-9, T4039G1007, T651A-1269, T651A-2002, T651A-2028, T651A-2036	T26S-18, T26J7	---
1A16-51	T6051A-1016, T6051A-1024, T6051A-1040, T451A2015, T451A2007	T26A-14	---
1A11-2	T6373 A-1017, T4039M1004	T28CB-1, T28CD-1	---
1C21-101	T810C-1004	---	---
1C26-101	T87F/539	---	---
1F78-144	T8400C-1024, T8401C-1015	T500HCN-1	---
1F78-151	T8400C	---	---
1F72-151	T8082A-1023	T500MSP-1	---
1F79-111	T8524A-1015	T500HPP-1	---
1F80-261	T8132C-1003, T8132C-1011, T8131C-1004, T8131C-1012, T8011R-1006	T500HCP-1	---
1F86-244	T8400C	T500HCN-1	---
1F81-261	---	T500MSP-1	---
1F83-261	---	T500MSN-1	---
1F90-371	---	---	---
1F96-344	---	---	---
1609-101	T4031A-1008, T4031A-1016, T6031A-1011, T6031A-1029, T675A-1169	A19ABC-24C, A19ABC-41CM, A19ABA-40CM	ALSC-1020, ALSC-1050
201-20	---	A19BBC-1	---
F29-0143	TG500A-1003	---	---
F29-0198	TG501A-1002	---	---

Ver Catálogo  
CNP0409C  
pags. de la 15 a la 28



1F56444



1F78-151



1609-101

**Separadores de Aceite SA - SAS**

EMERSON	AC&R	TEMPRITE	HERMETIK
SAS-1	S 5582	601	SA 601
SAS-2	S 5585	602	SA 602
SAS-3	S 5587	603	SA 603
SAS-4	S 5588	604	SA 604
SAS-5	S 5590	605	SA 605
SA-501	S 5882	501	SA 801
SA-502	S 5885	502	SA 802
SA-503	S 5887	503	SA 803
SA-504	S 5888	504	SA 804
SA-505	S 5890	505	SA 805
SA-506	S 5792	506	SA 806
SA-507	S 5794	507	SA 807

Ver Catálogo CNP0409D pag. 3



SA

**Depósitos de Aceite**

EMERSON	SPORLAN	AC&R
AOR-2	OR 1-1/2	S-9109
AOR-3.5	---	---
AOR-4	---	S-9108

Ver Catálogo  
CNP0409D pag. 9

AOR



**Reguladores Mecánicos de Nivel de Aceite**

EMERSON	SPORLAN	AC&R
OLC-2	---	S-9110
OLC-B2	---	---
OLC-4	---	S-9120
OLC-2-4	OL-2FH	S-9130

Ver Catálogo CNP0409D pag. 8



**Filtros para Línea de Aceite**

EMERSON	SPORLAN	AC&R
OFD-553	---	S-4005
AOF-303	OF-303	---
AOF-023S	ROF-413	---
F-023 (2)	OFE-1 (1)	---

(1) Cartucho OFE-1 de Sporlan no es compatible con el filtro AOF-023 S Emerson  
(2) Cartucho F-023 de Emerson no es compatible con el filtro ROF-413 de Sporlan

Ver Catálogo  
CNP0409D  
pag. 12

**Tanque Recibidor**

EMERSON	HERMETIK
TR-100	TR-100

Ver Catálogo  
CNP0409D pag. 17



## Acumuladores de Succión

EMERSON	AC&R	R. RESEARCH	HERMETIK
AS-375-4	---	3680 / 3684	---
AS-394-5	S 7043	---	---
AS-3115-5	---	3685 / 3703	HAS 58
AS-3115-6	---	---	---
AS-3138-5	S 7045	---	---
AS-3138-6	S 7046	---	---
AS-4100-5	S 7045	---	---
AS-4100-6	S 7046	---	---
AS-585-6	---	---	---
AS-585-7	---	3738	HAS 78
AS-5117-6	---	---	---
AS-5117-7	S 7057	---	---
AS-5134-7	S 7057	3738	---
AS-5134-9	---	3837	---
AS-5169-9	S 7061	---	---
AS-5169-11	---	---	---
AS-6126-7	---	3832 / 3827	---
AS-6126-9	---	3700 / 3832	---
AS-6138-11	---	3837/3706/3743	---
AS-6202-13	S 7063	3698	---



Ver Catálogo  
CNP0409D  
pag. 13

## Válvulas de Paso Tipo Diafragma

Ver Catálogo CNP0409D pag. 18



EMERSON	SAGINOMIYA	HERMETIK	DANFOSS
RDHP-B-2 B	BBV-2BR	VP-14	BML6
RDHP-B-3 B	BBV-3BR	VP-38	BML10
RDHP-B-4 B	NBV-4BR	VP-12	BML12
RDHP-B-5 B	NBV-5BR	VP-58	BML15
RDHP-B-3 ES	BBV-3ESR	VP-38 S	BML10S
RDHP-B-4 ES	NBV-4ESR	VP-12 S	BML12S
RDHP-B-5 ES	NBV-5ESR	VP-58 S	BML15S
RDHP-7 ES	NBV-7ESR	---	BML22S

## Válvulas de Paso Tipo Bola

Ver Catálogo CNP0409D pag. 19



EMERSON	DANFOSS	EMERSON	DANFOSS
ABV-2	GBC6S	ABV 9	GBC28S
ABV 3	GBC10S	ABV 11	GBC35S
ABV 4	GBC12S	ABV 13	GBC42S
ABV 5	GBC16S	ABV 17	GBC54S
ABV-6	---	ABV 21	GBC67S
ABV 7	GBC22S	ABV 25	GBC79S

## Válvulas Check

EMERSON	DANFOSS	EMERSON	DANFOSS
ACK-4	---	ACK-18	---
ACK-6	NRV10S	ACK-22	---
ACK-8	NRV12S	ACK-26	---
ACK-10	NRV16S	ACK-34	---
ACK-12	---	ACK-42	---
ACK-14	---	---	---

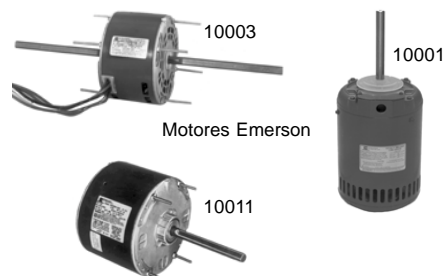


Ver Catálogo  
CNP0409D  
pag. 20

## MOTORES EMERSON

EMERSON	AO SMITH	FASCO	GE	MAGNETEK	MYRESA	MARATHON
6767	SV2034	---	---	---	---	---
6765	SV2054	---	---	---	---	---
6770	SV2074	---	---	---	---	---
1860	FSE1026S	D909	3728	176	---	X412
1861	FSE1036S	D908	3729	175	---	X413
1862	FSE1056S	D907	3730	187	1443	X414
1868	FSE1076S	D933	3731	779	7475	X095
8661	FS1016S	D927	3327	---	7070	---
3851	FS1026S	D749	3328	0500	---	X213
6880	FS1036S	D748	3329	0501	---	X214
3852	FS1056S	D745	3330	0502	---	X221
3097	FS1076S	D929	3331	738	---	X298
1444	F 1056S	---	3330	---	---	---
1817	---	---	---	H567	---	---
1818	FY3106	D6608	K329	H667, H696	---	---
1819	FY3156	D6610	K380	H767	---	---
1821	---	---	---	---	---	---
3133	SA1016	D752	3656	438	7813	X043
3134	SA1026	D755	3676	439	---	X044
3135	SA1036	D758	3686	0463	---	X045
3136	SA1056	D760	3696	0544	---	X062
9001	---	---	---	---	7815	---
9000	---	---	---	---	7814	---
9269	---	---	---	---	5203	---
2574	---	---	---	---	---	---

Ver Catálogo CNP0409E pags. de la 3 a la 6



Motores Emerson

## MOTORES MOTORVENCA

EMERSON	MACMILLAN
2410	483-4T-CE/5
3212	483-4A-BE/5
7210	---
7405	---
6602	---



Ver Catálogo  
CNP0409E  
pag. 7

# TABLA DE PRESION - TEMPERATURA

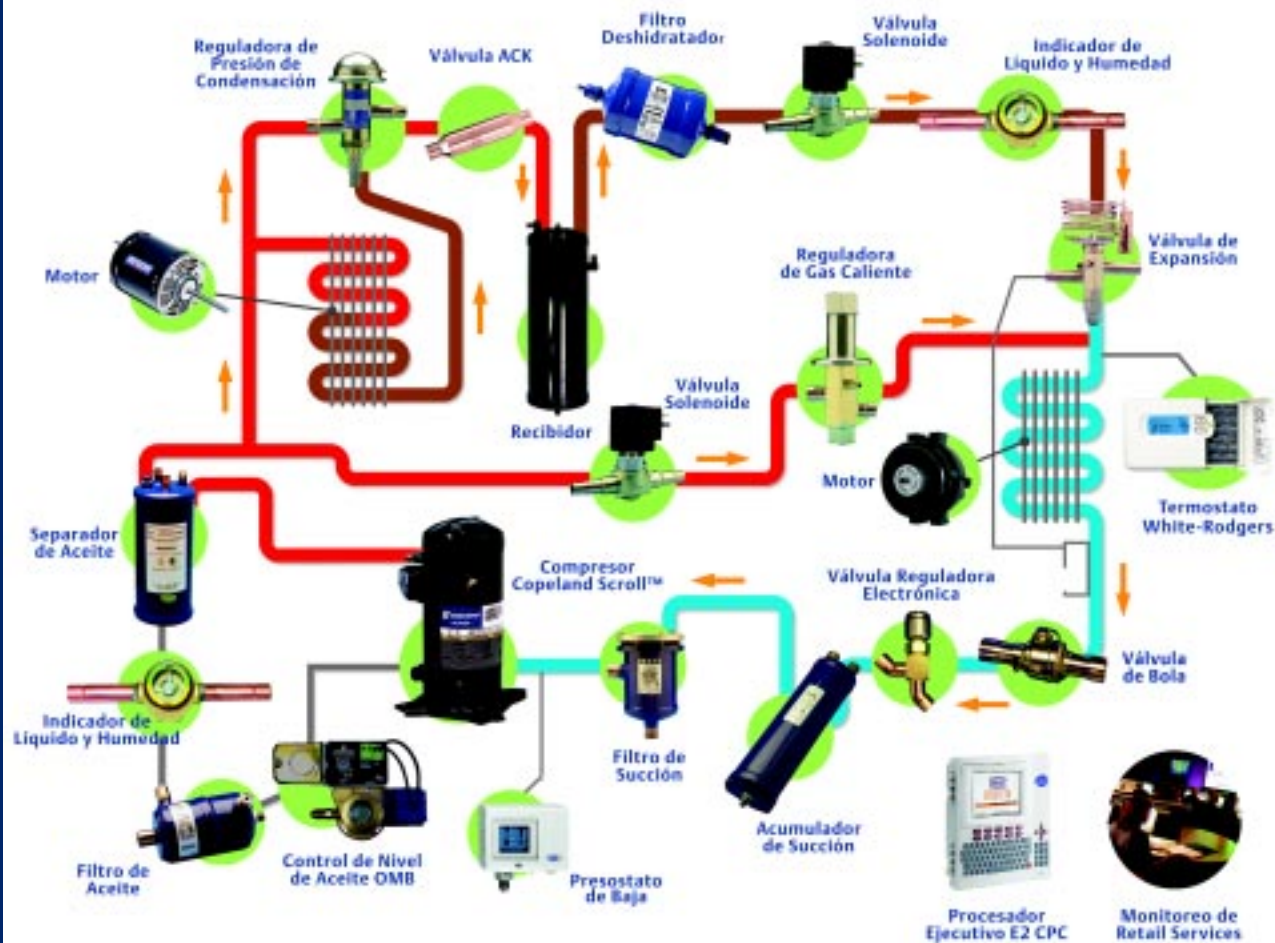


## AZUL-VACIO

## NEGRO-VAPOR (PSIG)

## NEGRITA-LIQUIDO (PSIG)

F	C	R12	R22	R502	R134a	AZ-50 (R507)	MP-39 (R401A)	HP-62 (R404A)	HP-80 (R502A)	F	C	R12	R22	R502	R134a	AZ-50 (R507)	MP-39 (R401A)	HP-62 (R404A)	HP-80 (R502A)
-50	-45.6	15.4	6.2	0.2	18.4	0.9	18.5	0.0	1.2	52	11.1	48.8	87.3	101.0	47.7	112.6	60.0	109.0	120.0
-48	-44.4	14.6	4.8	0.7	17.7	1.7	17.7	0.8	2.1	54	12.2	51.0	90.8	104.8	50.1	116.7	62.0	113.0	124.0
-46	-43.3	13.6	3.4	1.5	17.0	2.6	17.0	1.6	2.9	56	13.3	53.2	94.3	108.6	52.3	121.0	65.0	117.0	129.0
-44	-42.2	12.9	2.0	2.3	16.2	3.5	16.0	2.5	3.9	58	14.4	55.4	97.9	112.4	55.0	125.3	68.0	121.0	133.0
-42	-41.1	11.9	0.5	3.2	15.4	4.5	15.0	3.4	4.9	60	15.6	57.7	101.8	116.4	57.5	129.7	70.0	125.0	138.0
-40	-40.0	11.0	0.5	4.1	14.5	5.5	14.5	5.5	5.9	62	16.7	60.1	105.4	120.4	60.1	134.3	73.0	130.0	143.0
-38	-38.9	10.0	1.3	5.0	13.7	6.5	13.5	6.5	6.9	64	17.8	62.5	109.3	124.6	62.7	139.0	76.0	134.0	147.0
-36	-37.8	6.9	2.2	6.0	12.8	7.6	12.5	7.5	8.0	66	18.9	65.0	113.2	128.8	65.5	143.7	79.0	139.0	152.0
-34	-36.7	7.6	3.0	7.0	11.8	8.7	11.5	8.6	9.2	68	20.0	67.6	117.3	133.2	68.3	148.6	82.0	144.0	157.0
-32	-35.8	6.7	4.0	8.1	10.8	9.9	10.6	9.7	10.3	70	21.1	70.2	121.4	137.6	71.2	153.6	85.0	148.0	160.4
-30	-34.4	5.5	4.9	9.2	9.7	11.1	9.0	10.8	11.8	72	22.2	72.9	125.7	142.2	74.2	158.7	89.0	153.0	168.0
-28	-33.3	4.3	5.9	10.3	8.6	12.4	8.3	12.0	12.8	74	23.3	75.6	130.0	146.8	77.2	163.9	92.0	158.0	173.0
-26	-32.2	3.0	6.9	11.5	7.7	13.7	7.0	13.2	14.1	76	24.4	78.4	134.5	151.5	80.3	169.3	95.0	164.0	179.0
-24	-31.1	1.6	7.9	12.7	6.2	15.0	6.0	14.5	15.5	78	25.6	81.3	139.0	156.3	83.5	174.7	99.0	169.0	184.0
-22	-30.0	0.3	9.0	14.0	4.9	16.4	4.5	15.8	18.9	80	26.7	84.2	143.8	161.2	86.8	180.3	102.0	174.0	190.0
-20	-28.9	0.6	10.1	15.3	3.6	17.8	3.5	17.1	18.4	82	27.8	87.2	148.4	166.2	90.2	186.0	106.0	180.0	193.6
-18	-27.8	1.3	11.3	16.7	2.3	19.3	2.0	18.5	19.9	84	28.9	90.2	153.2	171.4	93.6	191.9	109.0	185.0	202.0
-16	-26.7	2.1	12.5	18.1	0.8	20.9	0.5	20.0	21.5	88	30.0	93.3	158.2	176.6	97.1	197.8	113.0	191.0	208.0
-14	-25.8	2.6	13.8	19.5	0.3	22.5	0.4	21.5	23.1	88	31.1	96.5	163.2	181.9	100.7	203.9	117.0	197.0	214.0
-12	-24.4	3.7	15.1	21.0	1.1	24.1	1.4	23.0	24.8	90	32.2	99.8	168.4	187.4	104.4	210.2	121.0	203.0	220.0
-10	-23.3	4.5	16.5	22.8	1.9	25.8	2.2	24.6	28.5	92	33.3	103.1	173.7	192.9	108.2	216.6	125.0	209.9	227.0
-8	-22.2	5.4	17.9	24.2	2.9	27.6	3.1	26.3	28.3	94	34.4	106.5	179.1	198.6	112.1	223.1	129.0	215.0	234.0
-6	-21.1	6.3	19.3	25.8	3.6	29.4	3.9	28.0	30.2	96	35.6	110.0	184.6	204.3	116.1	229.8	133.0	222.0	240.0
-4	-20.0	7.2	20.8	27.5	4.5	31.3	4.8	29.8	32.1	98	36.7	113.5	190.2	210.2	120.1	236.6	138.0	229.0	247.0
-2	-18.9	6.2	22.4	29.3	5.5	33.2	5.7	31.6	34.1	100	37.8	117.2	195.9	216.2	124.3	243.5	143.0	235.0	254.0
0	-17.8	9.2	24.0	31.1	6.5	35.2	8.7	33.5	36.1	102	38.9	120.9	201.8	222.3	128.5	250.6	146.0	242.0	261.0
2	-18.7	10.2	25.6	32.9	7.5	37.3	8.0	34.8	38.1	104	40.0	124.7	207.7	228.5	132.9	257.9	151.0	249.0	269.0
4	-15.8	11.2	27.3	34.9	8.5	39.4	8.8	37.4	40.4	106	41.1	128.5	213.8	234.9	137.3	265.3	156.0	256.0	276.0
6	-14.4	12.3	29.1	36.9	9.6	41.6	9.9	39.4	42.8	108	42.2	132.4	220.0	241.3	142.8	272.9	160.0	264.0	284.0
8	-13.3	13.5	30.9	38.9	10.8	43.8	11.0	41.6	44.9	110	43.3	136.4	226.4	247.9	146.5	280.6	165.0	271.0	292.0
10	-12.2	14.6	32.8	41.0	12.0	46.2	12.2	43.7	47.3	112	44.4	140.5	232.8	254.6	151.3	288.6	170.0	279.0	299.0
12	-11.1	15.6	34.7	43.2	13.1	48.5	13.4	46.0	49.7	114	45.6	144.7	239.4	261.5	156.1	296.6	175.0	286.0	307.0
14	-10.0	17.1	36.7	45.4	14.4	51.0	14.8	48.3	52.2	116	46.7	148.9	248.1	268.4	161.1	304.9	180.0	294.0	316.0
16	-8.9	16.4	38.7	47.7	15.7	53.5	15.9	50.7	54.8	118	47.8	153.2	252.9	275.5	166.1	313.3	185.0	302.0	324.0
18	-7.8	19.7	40.9	50.0	17.0	56.1	17.2	53.1	57.5	120	48.9	157.7	259.9	282.7	171.3	321.9	191.0	311.0	332.0
20	-6.7	21.0	43.0	52.5	18.4	58.8	18.6	55.6	60.2	122	50.0	162.2	267.0	290.1	176.6	330.7	196.0	319.0	341.0
22	-5.6	22.4	45.3	54.9	19.9	61.5	20.0	58.2	63.0	124	51.1	166.7	274.3	297.6	182.0	339.7	202.0	328.0	350.0
24	-4.4	23.9	47.6	57.5	21.4	64.3	21.5	60.9	65.9	126	52.2	171.4	281.6	305.2	187.5	348.9	207.0	336.0	359.0
26	-3.3	25.4	49.9	60.1	22.9	67.2	23.0	63.6	68.9	128	53.3	176.2	289.1	312.9	193.1	358.2	213.0	345.0	368.0
28	-2.2	26.9	52.4	62.8	24.5	70.2	24.8	66.5	72.0	130	54.4	181.0	296.8	320.8	198.9	367.8	219.0	354.0	377.0
30	-1.1	26.5	54.9	65.6	26.1	73.3	26.2	69.4	75.1	132	55.6	185.9	304.6	328.9	204.7	377.6	225.0	364.0	387.0
32	0.0	30.1	57.5	68.4	27.8	76.4	27.9	72.3	78.3	132	56.7	191.0	312.5	337.1	210.7	387.5	231.0	373.0	394.0
34	1.1	31.7	60.1	71.3	29.5	79.6	26.9	75.4	81.6	136	57.8	196.1	320.6	345.4	216.8	397.7	237.0	383.0	406.0
36	2.2	33.4	62.8	74.3	31.3	82.9	31.3	78.5	85.0	138	58.9	201.3	328.9	353.9	223.0	408.1	243.0	392.0	416.0
38	3.3	35.2	65.6	77.4	33.2	86.3	33.2	81.8	88.5	140	60.0	206.6	337.3	362.6	229.4	418.7	250.0	402.0	426.0
40	4.4	36.9	68.5	80.5	35.1	89.8	35.0	85.1	92.1	142	61.1	212.0	345.8	371.4	235.8	429.6	256.0	413.0	436.0
42	5.6	38.8	71.5	83.8	37.0	93.4	37.0	88.5	95.7	144	62.2	217.5	354.5	380.4	242.4	440.6	263.0	423.0	447.0
44	6.7	40.7	74.5	87.0	39.1	97.0	39.0	91.9	99.5	146	63.3	223.1	363.3	389.5	249.2	451.9	269.0	434.0	458.0
46	7.8	42.7	77.6	90.4	41.1	100.8	41.0	95.5	103.4	148	64.4	228.8	372.3	398.9	256.0	462.0	277.0	444.0	468.0
48	8.9	44.7	80.7	93.9	43.3	104.6	43.1	99.2	107.3	150	65.6	234.6	381.5	408.4	263.0	475.3	283.0	449.0	479.0
50	10.0	46.7	84.0	97.4	45.5	108.6	45.3	102.9	111.4										



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