VÁLVULA DE EXPANSIÓN ELECTRÓNICA SERIE DPF

La válvula de expansión electrónica DPF es apta para aire acondicionado, refrigeradores comerciales, cuartos fríos pequeños y bombas de calor. Controla con precisión el caudal de refrigerante para que el sistema funcione siempre en su punto óptimo, con enfriamiento rápido, control preciso y ahorro de energía.







CARACTERÍSTICAS

- Tamaño reducido, peso ligero, rendimiento estable y fiable;
- Respuesta y acción rápidas;
- Nuevo diseño estructural: bajo ruido y baja tasa de fallas;
- Las series DPF-RL3/DPF-P03 tienen puerto balanceado y alta presión de apertura inversa;
- Aptas para sistemas con poco o nada de aceite.

PARÁMETROS TÉCNICOS

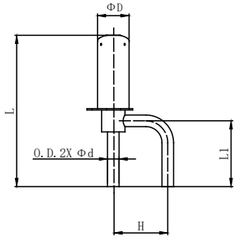
Refrigerante aplicable	R22、R134a、R404A、R407C、R410A
Capacidad nominal	2.5~126KW
Temperatura del medio	-30~+70°C
Temperatura ambiente	-30~+60°C
Humedad ambiente	< 95%RH
Pulsos de apertura total	500/1000PS
Pulsos de apertura de válvula	32±20
Tensión nominal	12 V DC (±10 %), onda rectangular
Modo de excitación	Excitación 1-2 fases, accionamiento unipolar
Velocidad de excitación	30~90pps
Modo de excitación al finalizar	0.1~1.0s
Tiempo de recorrido completo	6 s (83 pps)
Corriente de accionamiento	260mA
Resistencia de la bobina	46±3.7 Ω/fase
Clase de aislamiento de la bobina	Clase E
Grado de protección	IP65

APLICACIONES

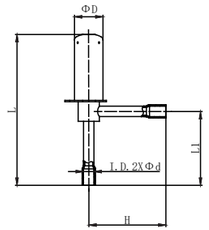
- Bombas de calor
- Enfriadoras modulares por aire
- Minisplit inverter
- A/A de autobuses
- Enfriamiento de TI



ESTRUCTURA



DPF-P01 tubo acodado



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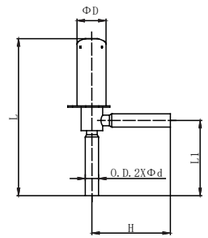
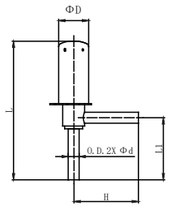
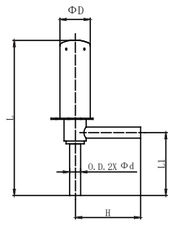


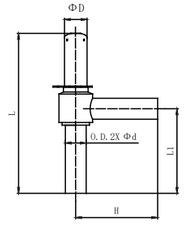
DPF-PT serie



Serie DPF-P02



Serie DPF-RL2



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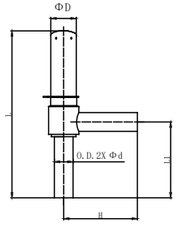


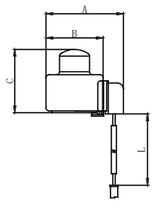
Serie DPF-RL3

DIMENSIONES GENERALES

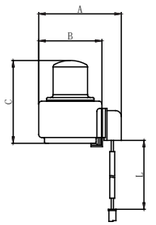
Modelo	ΦD	L	L1	H	Φd
DPF-P01010~P01024 tubo acodado	17.36	83	36	30	6.35
DPF-P01010~P01024 tubo recto	17.36	92	45	47	6.5
DPF-PT028~PT032	17.36	94	45	47	7.94
DPF-P02028~P02032	21.76	100.5	45	47	7.94
DPF-RL2028~RL2032	21.76	106	42	42	7.94
DPF-P03040~P03065	17.36	122	64	63	16
DPF-RL3040~RL3065	21.76	142	64	63	16

Nota: las dimensiones del tubo de conexión se pueden personalizar según requerimiento

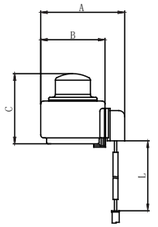
COIL



Serie DQ-M01012



Serie DQ-M02012

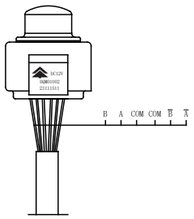


Serie DQ-M04012

DIMENSIONES GENERALES

Modelo	A	B	C	L	Compatible	Modelo de conector
Serie DQ-M01012	51	38	42	/	Series DPF-P01, DPF-PT y DPF-P03	XHP-5 XHP-6 XAP-5 XAP-6
Serie DQ-M02012	57.5	44	57	/	Series DPF-RL2 y DPF-RL3	
Serie DQ-M04012	57.5	44	46.5	/	Serie DPF-P02	
Nota: la longitud del cable y el conector se pueden personalizar según requerimiento del cliente.						

SECUENCIA DE EXCITACIÓN



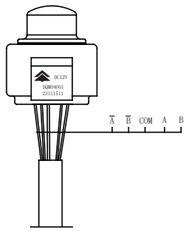


Diagrama de cableado del motor de cuatro fases y ocho pasos

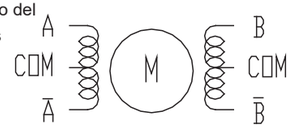
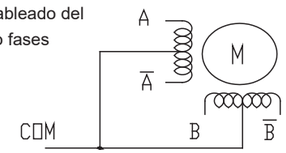


Diagrama de cableado del motor de cuatro fases y ocho pasos



Método de excitación								
	1	2	3	4	5	6	7	8
A	▨	▨						▨
B		▨	▨	▨				
Ā				▨	▨	▨		
B̄						▨	▨	▨

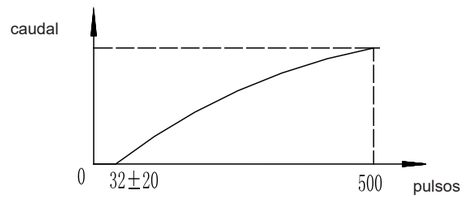
Secuencia de acción:
1→2→3→4→5→6→7→8 Abrir válvula
8→7→6→5→4→3→2→1 Cerrar válvula

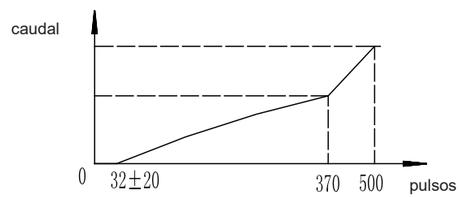
SELECCIÓN DE MODELO

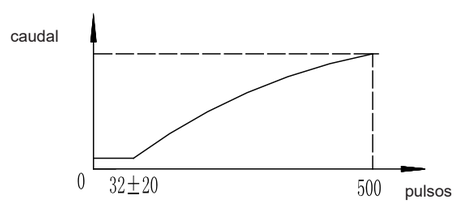
Serie	Pasos de apertura total	Diámetro	KV[2]	Capacidad nominal [kW]					Presión máx. de trabajo	Presión máx. de apertura inversa	Presión diferencial de apertura inversa
		[mm]	[m³/h]	R22	R134a	R407C[3]	R404A/R507	R410A[4]	[MPa]	[MPa]	[MPa]
DPF-P01013	500	1.30	0.06	4.36	3.40	4.46	3.08	5.12	4.2	3.2	≥1.47
DPF-P01016	500	1.65	0.08	8.01	6.26	8.22	5.65	9.42	4.2	3.2	≥1.47
DPF-P01018	500	1.80	0.10	9.11	7.10	9.32	6.44	10.70	4.2	3.2	≥1.47
DPF-P01020	500	2.00	0.16	11.25	8.77	11.51	7.95	13.21	4.2	2.8	≥1.47
DPF-P01022	500	2.20	0.20	13.61	10.61	13.92	9.61	15.98	4.2	2.8	≥1.47
DPF-P01024	500	2.40	0.23	16.20	12.63	16.57	11.44	19.02	4.2	2.8	≥1.47
DPF-PT030	500	3.00	0.39	20.20	15.78	20.76	14.24	23.77	4.2	2.8	≥1.47
DPF-PT032	500	3.20	0.43	27.85	21.76	28.62	19.63	32.78	4.2	2.8	≥1.47
DPF-P03040	500	6.50	0.50	40.37	31.54	41.49	28.45	47.52	4.2	4.2	≥3.5
DPF-P03045	500	6.50	0.70	50.48	39.44	51.88	35.58	59.42	4.2	4.2	≥3.5
DPF-P03055	500	6.50	0.80	67.30	52.58	69.16	47.44	79.21	4.2	4.2	≥3.5
DPF-P03065	500	6.50	1.10	100.96	78.88	103.75	71.16	118.83	4.2	4.2	≥3.5
DPF-P02030	500	3.0	0.39	20.2	15.78	20.76	14.24	23.77	4.2	2.8	≥1.47
DPF-P02032	500	3.20	0.43	27.85	21.76	28.62	19.63	32.78	4.2	2.8	≥1.47
DPF-RL2030	1000	3.0	0.39	20.2	15.78	20.76	14.24	23.77	4.2	2.8	≥1.47
DPF-RL2032	1000	3.20	0.43	27.85	21.76	28.62	19.63	32.78	4.2	2.8	≥1.47
DPF-RL3040	1000	6.50	0.5	40.37	31.54	41.49	28.45	47.52	4.2	4.2	≥3.5
DPF-RL3045	1000	6.50	0.7	50.48	39.44	51.88	35.58	59.42	4.2	4.2	≥3.5
DPF-RL3055	1000	6.50	0.8	67.3	52.58	69.16	47.44	79.21	4.2	4.2	≥3.5
DPF-RL3065	1000	6.50	1.1	100.96	78.88	103.75	71.16	118.83	4.2	4.2	≥3.5

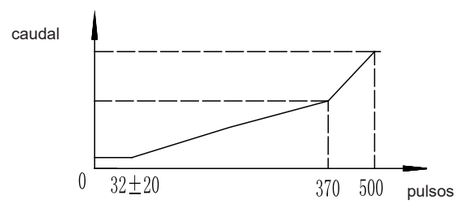
Condición nominal:
• Capacidad nominal con R407C: condensación +38 °C; evaporación +5 °C; subenfriamiento 0 K; sobrecalentamiento 0 K;
• Valor Kv: caudal directo de agua de densidad 1 t/m³ con una presión diferencial de 100 kPa en la válvula.

ESQUEMA DE LA CURVA DE FLUJO

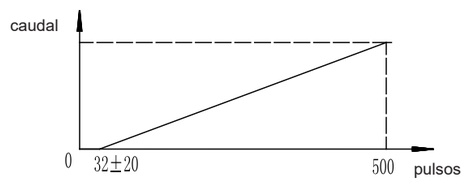








DPF-P01010~P01024 DPF-PT028~PT032



DPF-P03040~P03065

Nota: la curva de flujo se puede personalizar según requerimiento.

CAPACIDAD NOMINAL (kW)

	Temperatura de condensación [°C]	DPF-P01013							DPF-P01016						
		Temperatura de evaporación [°C]							Temperatura de evaporación [°C]						
		10	5	0	-5	-10	-20	-30	10	5	0	-5	-10	-20	-30
R410A	30	4.38	4.73	5.02	5.24	5.41	5.63	5.71	8.06	8.72	9.25	9.65	9.96	10.36	10.51
	35	4.72	5.00	5.22	5.41	5.54	5.70	5.73	8.68	9.21	9.63	9.95	10.20	10.49	10.56
	38	4.87	5.12	5.31	5.46	5.58	5.70	5.73	8.95	9.42	9.78	10.06	10.26	10.50	10.54
	40	4.93	5.17	5.36	5.49	5.59	5.70	5.70	9.10	9.53	9.86	10.11	10.29	10.49	10.50
	45	5.07	5.26	5.39	5.49	5.58	5.63	5.61	9.33	9.68	9.93	10.13	10.26	10.38	10.32
	50	5.10	5.24	5.36	5.42	5.48	5.49	5.42	9.39	9.65	9.85	9.99	10.07	10.11	10.00
R407C	30	3.79	4.06	4.28	4.43	4.55	4.66	4.66	6.96	7.47	7.86	8.15	8.36	8.57	8.60
	35	4.12	4.65	4.50	4.61	4.70	4.77	4.75	7.58	7.99	8.28	8.50	8.64	8.76	8.74
	38	4.28	4.46	4.60	4.70	4.77	4.80	4.77	7.88	8.22	8.47	8.65	8.76	8.85	8.78
	40	4.38	4.55	4.66	4.75	4.80	4.83	4.77	8.06	8.36	8.58	8.74	8.83	8.89	8.79
	45	4.56	4.68	4.77	4.83	4.85	4.85	4.77	8.39	8.63	8.79	8.89	8.95	8.92	8.76
	50	4.68	4.77	4.82	4.85	4.87	4.82	4.70	8.46	8.78	8.88	8.93	8.95	8.86	8.65
R22	30	3.63	3.92	4.14	4.31	4.44	4.61	4.68	6.68	7.21	7.63	7.95	8.18	8.49	8.61
	35	3.97	4.21	4.39	4.53	4.63	4.75	4.78	7.32	7.75	8.08	8.33	8.53	8.75	8.81
	38	4.14	4.36	4.51	4.63	4.72	4.82	4.83	7.64	8.01	8.31	8.53	8.70	8.88	8.90
	40	4.26	4.44	4.58	4.70	4.77	4.85	4.87	7.82	8.17	8.43	8.64	8.78	8.93	8.95
	45	4.46	4.61	4.73	4.82	4.87	4.92	4.90	8.22	8.50	8.71	8.86	8.97	9.06	9.03
	50	4.63	4.75	4.83	4.90	4.93	4.95	4.90	8.53	8.74	8.90	9.01	9.08	9.11	9.04
R134a	30	2.89	3.08	3.23	3.33	3.40	3.45	3.41	5.31	5.67	5.93	6.11	6.24	6.33	6.29
	35	3.14	3.30	3.40	3.46	3.52	3.53	3.46	5.79	6.07	6.26	6.39	6.46	6.49	6.39
	38	3.28	3.40	3.48	3.53	3.57	3.57	3.50	6.04	6.26	6.42	6.51	6.57	6.56	6.43
	40	3.35	3.46	3.53	3.58	3.60	3.58	3.50	6.18	6.38	6.51	6.58	6.63	6.58	6.45
	45	3.52	3.58	3.63	3.65	3.65	3.60	3.50	6.46	6.60	6.68	6.72	6.72	6.63	6.43
	50	3.62	3.67	3.68	3.68	3.67	3.58	3.46	6.65	6.74	6.78	6.78	6.75	6.60	6.38
R404A	30	2.70	2.89	3.04	3.13	3.19	3.24	3.21	4.97	5.33	5.58	5.76	5.89	5.97	5.90
	35	2.89	3.03	3.13	3.19	3.23	3.23	3.18	5.32	5.57	5.76	5.88	5.95	5.96	5.83
	38	2.96	3.08	3.14	3.19	3.21	3.19	3.11	5.43	5.65	5.79	5.88	5.92	5.89	5.74
	40	2.97	3.08	3.14	3.18	3.19	3.16	3.06	5.47	5.67	5.78	5.85	5.88	5.82	5.64
	45	3.01	3.08	3.11	3.13	3.11	3.04	2.92	5.53	5.65	5.72	5.74	5.72	5.61	5.39
	50	2.96	2.99	3.01	2.99	2.97	2.87	2.72	5.45	5.51	5.53	5.51	5.46	5.29	5.01

CAPACIDAD NOMINAL (kW)

	Temperatura de condensación [°C]	DPF-P01018							DPF-P01020						
		Temperatura de evaporación [°C]							Temperatura de evaporación [°C]						
		10	5	0	-5	-10	-20	-30	10	5	0	-5	-10	-20	-30
R410A	30	9.15	9.88	10.49	10.95	11.31	11.77	11.93	11.30	12.20	12.95	13.52	13.96	14.52	14.73
	35	9.86	10.45	10.91	11.31	11.58	11.91	11.97	12.18	12.90	13.47	13.96	14.29	14.71	14.78
	38	10.18	10.70	11.10	11.41	11.66	11.91	11.97	12.56	13.21	13.70	14.09	14.40	14.71	14.78
	40	10.30	10.80	11.20	11.47	11.68	11.91	11.91	12.72	13.34	13.83	14.16	14.42	14.71	14.71
	45	10.59	10.99	11.26	11.47	11.66	11.77	11.72	13.08	13.57	13.91	14.16	14.40	14.52	14.47
	50	10.66	10.95	11.20	11.33	11.45	11.47	11.33	13.16	13.52	13.83	13.98	14.14	14.16	13.98
R407C	30	7.92	8.48	8.94	9.26	9.51	9.74	9.74	9.78	10.47	11.04	11.43	11.74	12.02	12.02
	35	8.61	9.72	9.40	9.63	9.82	9.97	9.93	10.63	12.00	11.61	11.89	12.13	12.31	12.25
	38	8.94	9.32	9.61	9.82	9.97	10.03	9.97	11.04	11.51	11.87	12.13	12.31	12.38	12.31
	40	9.15	9.51	9.74	9.93	10.03	10.09	9.97	11.30	11.74	12.02	12.25	12.38	12.46	12.31
	45	9.53	9.78	9.97	10.09	10.14	10.14	9.97	11.76	12.07	12.31	12.46	12.51	12.51	12.31
	50	9.78	9.97	10.07	10.14	10.18	10.07	9.82	12.07	12.31	12.44	12.51	12.56	12.44	12.13
R22	30	7.59	8.19	8.65	9.01	9.28	9.63	9.78	9.36	10.11	10.68	11.12	11.45	11.89	12.07
	35	8.30	8.80	9.17	9.47	9.68	9.93	9.99	10.24	10.86	11.33	11.69	11.94	12.25	12.33
	38	8.65	9.11	9.42	9.68	9.86	10.07	10.09	10.68	11.25	11.64	11.94	12.18	12.44	12.46
	40	8.90	9.28	9.57	9.82	9.97	10.14	10.18	10.99	11.45	11.82	12.13	12.31	12.51	12.56
	45	9.32	9.63	9.88	10.07	10.18	10.28	10.24	11.51	11.89	12.20	12.44	12.56	12.69	12.64
	50	9.68	9.93	10.09	10.24	10.30	10.34	10.24	11.94	12.25	12.46	12.64	12.72	12.77	12.64
R134a	30	6.04	6.44	6.75	6.96	7.10	7.21	7.13	7.46	7.95	8.33	8.59	8.77	8.90	8.80
	35	6.56	6.90	7.10	7.23	7.36	7.38	7.23	8.10	8.51	8.77	8.93	9.08	9.11	8.93
	38	6.85	7.10	7.27	7.38	7.46	7.46	7.31	8.46	8.77	8.98	9.11	9.21	9.21	9.03
	40	7.00	7.23	7.38	7.48	7.52	7.48	7.31	8.64	8.93	9.11	9.24	9.29	9.24	9.03
	45	7.36	7.48	7.59	7.63	7.63	7.52	7.31	9.08	9.24	9.36	9.42	9.42	9.29	9.03
	50	7.56	7.67	7.69	7.69	7.67	7.48	7.23	9.34	9.47	9.49	9.49	9.47	9.24	8.93
R404A	30	5.64	6.04	6.35	6.54	6.67	6.77	6.71	6.97	7.46	7.84	8.08	8.23	8.36	8.28
	35	6.04	6.33	6.54	6.67	6.75	6.75	6.65	7.46	7.82	8.08	8.23	8.33	8.33	8.20
	38	6.19	6.44	6.56	6.67	6.71	6.67	6.50	7.64	7.95	8.10	8.23	8.28	8.23	8.02
	40	6.21	6.44	6.56	6.65	6.67	6.60	6.39	7.66	7.95	8.10	8.20	8.23	8.15	7.89
	45	6.29	6.44	6.50	6.54	6.50	6.35	6.10	7.77	7.95	8.02	8.08	8.02	7.84	7.53
	50	6.19	6.25	6.29	6.25	6.21	6.00	5.68	7.64	7.71	7.77	7.71	7.66	7.40	7.02

CAPACIDAD NOMINAL (kW)

	Temperatura de condensación [°C]	DPF-P01022							DPF-P01024						
		Temperatura de evaporación [°C]							Temperatura de evaporación [°C]						
		10	5	0	-5	-10	-20	-30	10	5	0	-5	-10	-20	-30
R410A	30	13.67	14.77	15.67	16.36	16.89	17.57	17.82	16.27	17.57	18.65	19.47	20.10	20.92	21.21
	35	14.73	15.61	16.30	16.89	17.29	17.79	17.89	17.53	18.58	19.39	20.10	20.58	21.18	21.29
	38	15.20	15.98	16.58	17.04	17.42	17.79	17.89	18.09	19.02	19.73	20.28	20.73	21.18	21.29
	40	15.39	16.14	16.73	17.14	17.45	17.79	17.79	18.32	19.21	19.91	20.40	20.77	21.18	21.18
	45	15.83	16.42	16.83	17.14	17.42	17.57	17.51	18.84	19.54	20.02	20.40	20.73	20.92	20.84
	50	15.92	16.36	16.73	16.92	17.11	17.14	16.92	18.95	19.47	19.91	20.14	20.36	20.40	20.14
R407C	30	11.83	12.67	13.36	13.83	14.20	14.55	14.55	14.08	15.08	15.90	16.46	16.90	17.31	17.31
	35	12.86	14.52	14.05	14.39	14.67	14.89	14.83	15.31	17.27	16.72	17.13	17.46	17.72	17.65
	38	13.36	13.92	14.36	14.67	14.89	14.98	14.89	15.90	16.57	17.09	17.46	17.72	17.83	17.72
	40	13.67	14.20	14.55	14.83	14.98	15.08	14.89	16.27	16.90	17.31	17.65	17.83	17.94	17.72
	45	14.23	14.61	14.89	15.08	15.14	15.14	14.89	16.94	17.39	17.72	17.94	18.02	18.02	17.72
	50	14.61	14.89	15.05	15.14	15.20	15.05	14.67	17.39	17.72	17.91	18.02	18.09	17.91	17.46
R22	30	11.33	12.24	12.92	13.45	13.86	14.39	14.61	13.49	14.56	15.38	16.01	16.49	17.13	17.39
	35	12.39	13.14	13.70	14.14	14.45	14.83	14.92	14.75	15.64	16.31	16.83	17.20	17.65	17.76
	38	12.92	13.61	14.08	14.45	14.73	15.05	15.08	15.38	16.20	16.75	17.20	17.53	17.91	17.94
	40	13.30	13.86	14.30	14.67	14.89	15.14	15.20	15.83	16.49	17.01	17.46	17.72	18.02	18.09
	45	13.92	14.39	14.77	15.05	15.20	15.36	15.30	16.57	17.13	17.57	17.91	18.09	18.28	18.20
	50	14.45	14.83	15.08	15.30	15.39	15.45	15.30	17.20	17.65	17.94	18.20	18.32	18.39	18.20
R134a	30	9.02	9.61	10.08	10.40	10.61	10.77	10.64	10.74	11.44	12.00	12.37	12.63	12.82	12.67
	35	9.80	10.30	10.61	10.80	10.99	11.02	10.80	11.67	12.26	12.63	12.85	13.08	13.11	12.85
	38	10.24	10.61	10.86	11.02	11.14	11.14	10.93	12.19	12.63	12.93	13.11	13.26	13.26	13.00
	40	10.46	10.80	11.02	11.18	11.24	11.18	10.93	12.45	12.85	13.11	13.30	13.37	13.30	13.00
	45	10.99	11.18	11.33	11.39	11.39	11.24	10.93	13.08	13.30	13.49	13.56	13.56	13.37	13.00
	50	11.30	11.46	11.49	11.49	11.46	11.18	10.80	13.45	13.63	13.67	13.67	13.63	13.30	12.85
R404A	30	8.43	9.02	9.49	9.77	9.96	10.11	10.02	10.03	10.74	11.29	11.63	11.85	12.04	11.93
	35	9.02	9.46	9.77	9.96	10.08	10.08	9.93	10.74	11.26	11.63	11.85	12.00	12.00	11.81
	38	9.24	9.61	9.80	9.96	10.02	9.96	9.71	11.00	11.44	11.67	11.85	11.93	11.85	11.55
	40	9.27	9.61	9.80	9.93	9.96	9.86	9.55	11.03	11.44	11.67	11.81	11.85	11.74	11.37
	45	9.40	9.61	9.71	9.77	9.71	9.49	9.12	11.18	11.44	11.55	11.63	11.55	11.29	10.85
	50	9.24	9.33	9.40	9.33	9.27	8.96	8.49	11.00	11.11	11.18	11.11	11.03	10.66	10.10

CAPACIDAD NOMINAL (kW)

	Temperatura de condensación [°C]	DPF-PT030							DPF-PT032						
		Temperatura de evaporación [°C]							Temperatura de evaporación						
		10	5	0	-5	-10	-20	-30	10	5	0	-5	-10	-20	-30
R410A	30	20.33	22.02	23.35	24.33	25.18	26.16	26.51	28.04	30.36	32.20	33.55	34.72	36.07	36.55
	35	21.88	23.21	24.33	25.11	25.74	26.44	26.65	30.17	32.01	33.55	34.62	35.49	36.46	36.75
	38	22.58	23.77	24.69	25.39	25.95	26.51	26.58	31.14	32.78	34.04	35.01	35.78	36.55	36.65
	40	23.00	24.06	24.90	25.53	26.02	26.51	26.51	31.72	33.17	34.33	35.20	35.88	36.55	36.55
	45	23.56	24.40	25.11	25.60	25.88	26.16	26.02	32.49	33.65	34.62	35.30	35.68	36.07	35.88
	50	23.70	24.33	24.90	25.18	25.45	25.53	25.24	32.68	33.55	34.33	34.72	35.10	35.20	34.81
R407C	30	17.54	18.86	19.85	20.55	21.04	21.60	21.67	24.18	26.01	27.37	28.33	29.01	29.78	29.88
	35	19.15	20.12	20.90	21.39	21.81	22.09	22.02	26.40	27.75	28.82	29.49	30.07	30.46	30.36
	38	19.85	20.76	21.39	21.81	22.09	22.30	22.09	27.37	28.62	29.49	30.07	30.46	30.75	30.46
	40	20.27	21.11	21.67	22.02	22.30	22.37	22.16	27.95	29.11	29.88	30.36	30.75	30.85	30.56
	45	21.18	21.74	22.16	22.44	22.51	22.51	22.09	29.20	29.98	30.56	30.94	31.04	31.04	30.46
	50	21.67	22.09	22.37	22.51	22.58	22.30	21.81	29.88	30.46	30.85	31.04	31.14	30.75	30.07
R22	30	16.83	18.23	19.28	20.06	20.69	21.46	21.74	23.21	25.14	26.59	27.66	28.53	29.59	29.98
	35	18.44	19.57	20.41	21.04	21.53	22.09	22.23	25.43	26.98	28.14	29.01	29.69	30.46	30.65
	38	19.28	20.20	20.97	21.53	21.95	22.37	22.44	26.59	27.85	28.91	29.69	30.27	30.85	30.94
	40	19.78	20.62	21.32	21.81	22.16	22.58	22.58	27.27	28.43	29.40	30.07	30.56	31.14	31.14
	45	20.76	21.46	22.02	22.37	22.65	22.86	22.79	28.62	29.59	30.36	30.85	31.23	31.52	31.43
	50	21.53	22.09	22.44	22.79	22.93	23.00	22.79	29.69	30.46	30.94	31.43	31.62	31.72	31.43
R134a	30	13.39	14.31	15.00	15.43	15.78	15.99	15.85	18.47	19.73	20.69	21.27	21.76	22.05	21.85
	35	14.66	15.36	15.78	16.13	16.34	16.41	16.13	20.21	21.18	21.76	22.24	22.53	22.63	22.24
	38	15.21	15.78	16.20	16.48	16.55	16.55	16.20	20.98	21.76	22.34	22.72	22.82	22.82	22.34
	40	15.57	16.06	16.41	16.62	16.69	16.55	16.27	21.47	22.14	22.63	22.92	23.01	22.82	22.43
	45	16.34	16.69	16.90	16.97	16.97	16.69	16.27	22.53	23.01	23.30	23.40	23.40	23.01	22.43
	50	16.83	17.04	17.11	17.11	17.04	16.69	16.06	23.21	23.50	23.59	23.59	23.50	23.01	22.14
R404A	30	12.55	13.47	14.10	14.58	14.87	15.08	14.94	17.31	18.57	19.44	20.11	20.50	20.79	20.60
	35	13.39	14.10	14.52	14.87	15.00	15.00	14.73	18.47	19.44	20.02	20.50	20.69	20.69	20.31
	38	13.74	14.24	14.66	14.87	14.94	14.87	14.52	18.95	19.63	20.21	20.50	20.60	20.50	20.02
	40	13.82	14.31	14.58	14.79	14.79	14.66	14.24	19.05	19.73	20.11	20.40	20.40	20.21	19.63
	45	13.95	14.16	14.45	14.52	14.45	14.16	13.60	19.24	19.53	19.92	20.02	19.92	19.53	18.76
	50	13.74	13.89	13.95	13.89	13.82	13.32	12.69	18.95	19.15	19.24	19.15	19.05	18.37	17.50

CAPACIDAD NOMINAL (kW)

	Temperatura de condensación [°C]	DPF-P03040							DPF-P03045						
		Temperatura de evaporación [°C]							Temperatura de evaporación [°C]						
		10	5	0	-5	-10	-20	-30	10	5	0	-5	-10	-20	-30
R410A	30	40.64	44.01	46.67	48.63	50.33	52.28	52.98	50.83	55.03	58.37	60.81	62.93	65.38	66.25
	35	43.73	46.40	48.63	50.18	51.44	52.85	53.27	54.69	58.02	60.81	62.75	64.33	66.09	66.61
	38	45.14	47.52	49.34	50.75	51.86	52.98	53.13	56.45	59.42	61.70	63.46	64.86	66.25	66.43
	40	45.98	48.08	49.76	51.02	52.01	52.98	52.98	57.50	60.13	62.23	63.80	65.04	66.25	66.25
	45	47.09	48.78	50.18	51.17	51.72	52.28	52.01	58.89	61.00	62.75	63.99	64.67	65.38	65.04
	50	47.37	48.63	49.76	50.33	50.88	51.02	50.46	59.24	60.81	62.23	62.93	63.62	63.80	63.10
R407C	30	35.05	37.70	39.67	41.06	42.05	43.17	43.31	43.83	47.15	49.61	51.35	52.58	53.98	54.16
	35	38.27	40.22	41.78	42.75	43.59	44.15	44.01	47.85	50.30	52.24	53.45	54.51	55.21	55.03
	38	39.67	41.49	42.75	43.59	44.15	44.57	44.15	49.61	51.88	53.45	54.51	55.21	55.74	55.21
	40	40.51	42.20	43.31	44.01	44.57	44.72	44.30	50.66	52.77	54.16	55.03	55.74	55.92	55.39
	45	42.33	43.46	44.30	44.85	44.99	44.99	44.15	52.93	54.34	55.39	56.08	56.26	56.26	55.21
	50	43.31	44.15	44.72	44.99	45.14	44.57	43.59	54.16	55.21	55.92	56.26	56.45	55.74	54.51
R22	30	33.64	36.44	38.54	40.09	41.35	42.89	43.46	42.07	45.57	48.20	50.14	51.71	53.64	54.34
	35	36.86	39.11	40.79	42.05	43.04	44.15	44.43	46.10	48.90	51.01	52.58	53.82	55.21	55.56
	38	38.54	40.37	41.91	43.04	43.88	44.72	44.85	48.20	50.48	52.40	53.82	54.87	55.92	56.08
	40	39.53	41.21	42.62	43.59	44.30	45.14	45.14	49.43	51.53	53.29	54.51	55.39	56.45	56.45
	45	41.49	42.89	44.01	44.72	45.27	45.69	45.56	51.88	53.64	55.03	55.92	56.61	57.13	56.97
	50	43.04	44.15	44.85	45.56	45.83	45.98	45.56	53.82	55.21	56.08	56.97	57.32	57.50	56.97
R134a	30	26.77	28.60	29.99	30.83	31.54	31.96	31.67	33.48	35.76	37.50	38.55	39.44	39.97	39.61
	35	29.29	30.70	31.54	32.24	32.66	32.80	32.24	36.63	38.39	39.44	40.31	40.84	41.02	40.31
	38	30.41	31.54	32.38	32.93	33.08	33.08	32.38	38.03	39.44	40.49	41.18	41.36	41.36	40.49
	40	31.12	32.09	32.80	33.22	33.35	33.08	32.51	38.92	40.13	41.02	41.55	41.71	41.36	40.66
	45	32.66	33.35	33.77	33.92	33.92	33.35	32.51	40.84	41.71	42.23	42.42	42.42	41.71	40.66
	50	33.64	34.06	34.19	34.19	34.06	33.35	32.09	42.07	42.60	42.76	42.76	42.60	41.71	40.13
R404A	30	25.09	26.92	28.18	29.15	29.72	30.14	29.86	31.38	33.66	35.24	36.45	37.16	37.68	37.34
	35	26.77	28.18	29.02	29.72	29.99	29.99	29.44	33.48	35.24	36.29	37.16	37.50	37.50	36.81
	38	27.47	28.45	29.29	29.72	29.86	29.72	29.02	34.35	35.58	36.63	37.16	37.34	37.16	36.29
	40	27.61	28.60	29.15	29.57	29.57	29.29	28.45	34.53	35.76	36.45	36.98	36.98	36.63	35.58
	45	27.89	28.31	28.87	29.02	28.87	28.31	27.19	34.88	35.40	36.11	36.29	36.11	35.40	34.01
	50	27.47	27.76	27.89	27.76	27.61	26.63	25.37	34.35	34.71	34.88	34.71	34.53	33.30	31.72

CAPACIDAD NOMINAL (kW)

	Temperatura de condensación [°C]	DPF-P03055							DPF-P03065						
		Temperatura de evaporación [°C]							Temperatura de evaporación [°C]						
		10	5	0	-5	-10	-20	-30	10	5	0	-5	-10	-20	-30
R410A	30	67.76	73.37	77.81	81.07	83.90	87.16	88.32	101.65	110.06	116.73	121.62	125.86	130.76	132.50
	35	72.91	77.35	81.07	83.66	85.76	88.11	88.81	109.37	116.04	121.62	125.50	128.65	132.17	133.22
	38	75.25	79.21	82.26	84.60	86.46	88.32	88.57	112.88	118.83	123.40	126.91	129.71	132.50	132.86
	40	76.65	80.16	82.96	85.06	86.71	88.32	88.32	114.99	120.24	124.45	127.60	130.07	132.50	132.50
	45	78.51	81.32	83.66	85.30	86.22	87.16	86.71	117.78	121.98	125.50	127.97	129.34	130.76	130.07
	50	78.97	81.07	82.96	83.90	84.82	85.06	84.12	118.47	121.62	124.45	125.86	127.24	127.60	126.19
R407C	30	58.43	62.85	66.14	68.46	70.10	71.96	72.21	87.65	94.29	99.22	102.70	105.16	107.95	108.32
	35	63.80	67.06	69.64	71.26	72.67	73.61	73.37	95.70	100.60	104.47	106.90	109.01	110.42	110.06
	38	66.14	69.16	71.26	72.67	73.61	74.31	73.61	99.22	103.75	106.90	109.01	110.42	111.47	110.42
	40	67.54	70.35	72.21	73.37	74.31	74.55	73.85	101.32	105.53	108.32	110.06	111.47	111.83	110.78
	45	70.56	72.45	73.85	74.77	75.01	75.01	73.61	105.85	108.68	110.78	112.16	112.52	112.52	110.42
	50	72.21	73.61	74.55	75.01	75.25	74.31	72.67	108.32	110.42	111.83	112.52	112.88	111.47	109.01
R22	30	56.09	60.75	64.26	66.84	68.94	71.51	72.45	84.14	91.13	96.39	100.27	103.42	107.27	108.68
	35	61.45	65.20	68.00	70.10	71.75	73.61	74.07	92.19	97.80	102.01	105.16	107.63	110.42	111.11
	38	64.26	67.30	69.86	71.75	73.15	74.55	74.77	96.39	100.96	104.80	107.63	109.73	111.83	112.16
	40	65.90	68.70	71.05	72.67	73.85	75.25	75.25	98.86	103.06	106.58	109.01	110.78	112.88	112.88
	45	69.16	71.51	73.37	74.55	75.47	76.17	75.95	103.75	107.27	110.06	111.83	113.21	114.26	113.94
	50	71.75	73.61	74.77	75.95	76.41	76.65	75.95	107.63	110.42	112.16	113.94	114.62	114.99	113.94
R134a	30	44.63	47.68	50.00	51.40	52.58	53.28	52.80	66.96	71.52	75.00	77.11	78.88	79.93	79.21
	35	48.84	51.18	52.58	53.74	54.44	54.69	53.74	73.26	76.78	78.88	80.62	81.67	82.04	80.62
	38	50.70	52.58	53.99	54.90	55.15	55.15	53.99	76.05	78.88	80.98	82.36	82.72	82.72	80.98
	40	51.88	53.50	54.69	55.39	55.60	55.15	54.20	77.83	80.26	82.04	83.09	83.41	82.72	81.31
	45	54.44	55.60	56.31	56.55	56.55	55.60	54.20	81.67	83.41	84.46	84.83	84.83	83.41	81.31
	50	56.09	56.79	57.01	57.01	56.79	55.60	53.50	84.14	85.19	85.52	85.52	85.19	83.41	80.26
R404A	30	41.83	44.88	46.98	48.60	49.54	50.24	49.78	62.75	67.32	70.47	72.90	74.31	75.37	74.68
	35	44.63	46.98	48.38	49.54	50.00	50.00	49.08	66.96	70.47	72.57	74.31	75.00	75.00	73.63
	38	45.79	47.44	48.84	49.54	49.78	49.54	48.38	68.70	71.16	73.26	74.31	74.68	74.31	72.57
	40	46.04	47.68	48.60	49.30	49.30	48.84	47.44	69.06	71.52	72.90	73.95	73.95	73.26	71.16
	45	46.49	47.19	48.14	48.38	48.14	47.19	45.33	69.75	70.80	72.21	72.57	72.21	70.80	68.01
	50	45.79	46.28	46.49	46.28	46.04	44.39	42.29	68.70	69.42	69.75	69.42	69.06	66.59	63.44