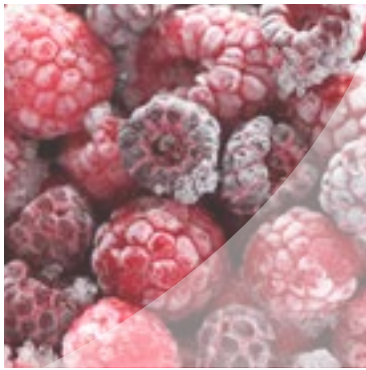


*More than cold*



# **HUA** CONDENSING UNIT

## UNIDAD CONDENSADORA **HUA**

50 HZ

2018

# HUA CONDENSING UNIT/ UNIDAD CONDENSADORA HUA



**Compact size**

Tamaño compacto

**Easy installation**

Fácil instalación

The compact footprint of these condensing units series enables the installer easy & quick installation.

The HUA design ensures a wider operating envelope, especially in high ambient conditions.

HUA condensing units can be equipped with SCROLL or reciprocating compressors for commercial refrigeration in high, medium and low back pressure conditions covering a wide operation envelope.

The range includes models suitable for all common fluorinated refrigerants.

A complete range from a single source.

El tamaño compacto de estas unidades condensadoras permite una fácil y rápida instalación.

El diseño del HUA garantiza una amplia operación, especialmente en ambientes de alta temperatura.

Las unidades de condensación HUA pueden ser equipados con compresores SCROLL o reciprocantes para la refrigeración comercial en alta, media y bajas condiciones de presión cubriendo una amplia operación.

La gama incluye modelos adecuados para todos los refrigerantes fluorados.

Una gama completa desde una sola fuente.



## General features:

The condensing unit HUA range is designed for commercial refrigeration at medium and low temperatures. Specially designed with tropical condenser, low noise operation, easy maintenance, finest components to guarantee final quality control.

## Accessories:

- Powder coated Zinc plate high corrosion strength
- Tropical condenser coil in copper tube and aluminium fins
- Sound insulation
- Hermetic scroll or reciprocating compressor
- Dural pressure switch with automatic reset
- Solenoid valve on liquid line
- Filter drier on liquid line
- Sight glass with moisture indicator
- Liquid receiver
- Shut-off valves for liquid and suction line
- External rotor motor axial fans
- Built in electric control panel
- Manometers

## Optional items:

- Fan speed controller based on condenser pressure
- Oil separator
- Crankcase heater
- Suction accumulator
- Different voltage & gas.

## Características generales:

Las unidades condensadoras HUA están diseñadas para la refrigeración comercial para alta, media y baja temperatura.

Bajo nivel sonoro, y un fácil mantenimiento e instalación.

Todos los componentes de control son de alta calidad y marcas reconocidas.

## Accesorios:

- Paquete de aletas con tratamiento anti corrosión
- Condensador tropicalizado
- Unidad condensadora insonorizada
- Compresor Scroll o hermetico de pistones
- Doble presostato con rearme automatico. Alta y baja presión.
- Válvula selenoide en línea de líquido
- Filtro deshidratador en línea de líquido
- Visor de líquido
- Recipiente de líquido (calderin)
- Válvulas de servicio en línea de líquido y aspiración
- Ventiladores axiales motor de rotor externo
- Panel eléctrico de control
- Manómetros

## Accesorios opcionales:

- Control de velocidad, según la condensación
- Separador de aceite
- Resistencia de carter
- Acumulador de succión
- Diferente voltaje & gas



# HUA CONDENSING UNIT/ UNIDAD CONDENSADORA HUA

**Energy efficiency**  
Eficiencia energética

**Easy maintenance**  
Fácil mantención



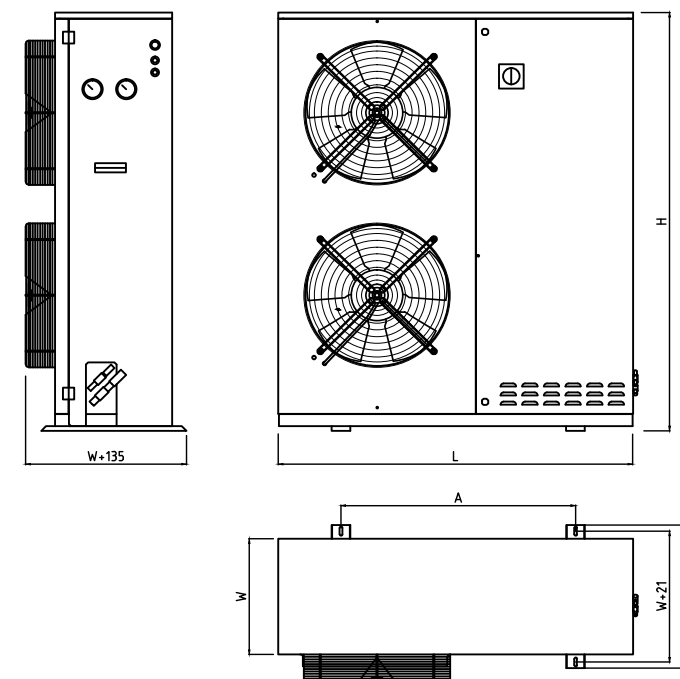
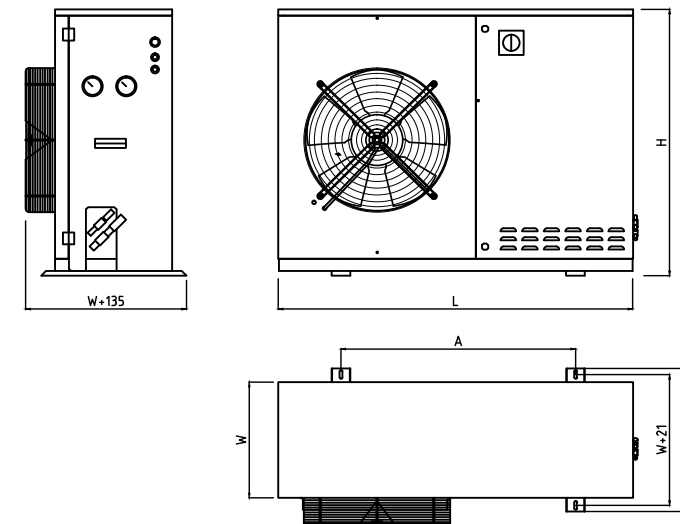
## MODEL CLASSIFICATION / CLASIFICACIÓN DE MODELOS

### HUA 4501Z03P MT

T:THREE PHASE (S:SINGLE PHASE) / T:TRIFÁSICO (S:UNA FASE)  
M:MIDDLE AND HIGH TEMPERATURE, L: LOW TEMPERATURE / M: MEDIA Y ALTA TEMPERATURA / L: BAJA Tº  
P:CONDENSER LENGTH PLUS (NONE:CONDENSER LENGTH STANDARD)  
/P:LARGO ADICIONAL DEL CONDENSADOR (NINGUNO: LARGO DEL CONDENSADOR ESTÁNDAR)  
ROWS OF CONDENSER  
R404A  
FAN Ø (MM) Nº /VENTILADOR  
SERIES/SERIE

# HUA CONDENSING UNIT/ UNIDAD CONDENSADORA HUA

## DIMENSIONS / SIMENSIONES



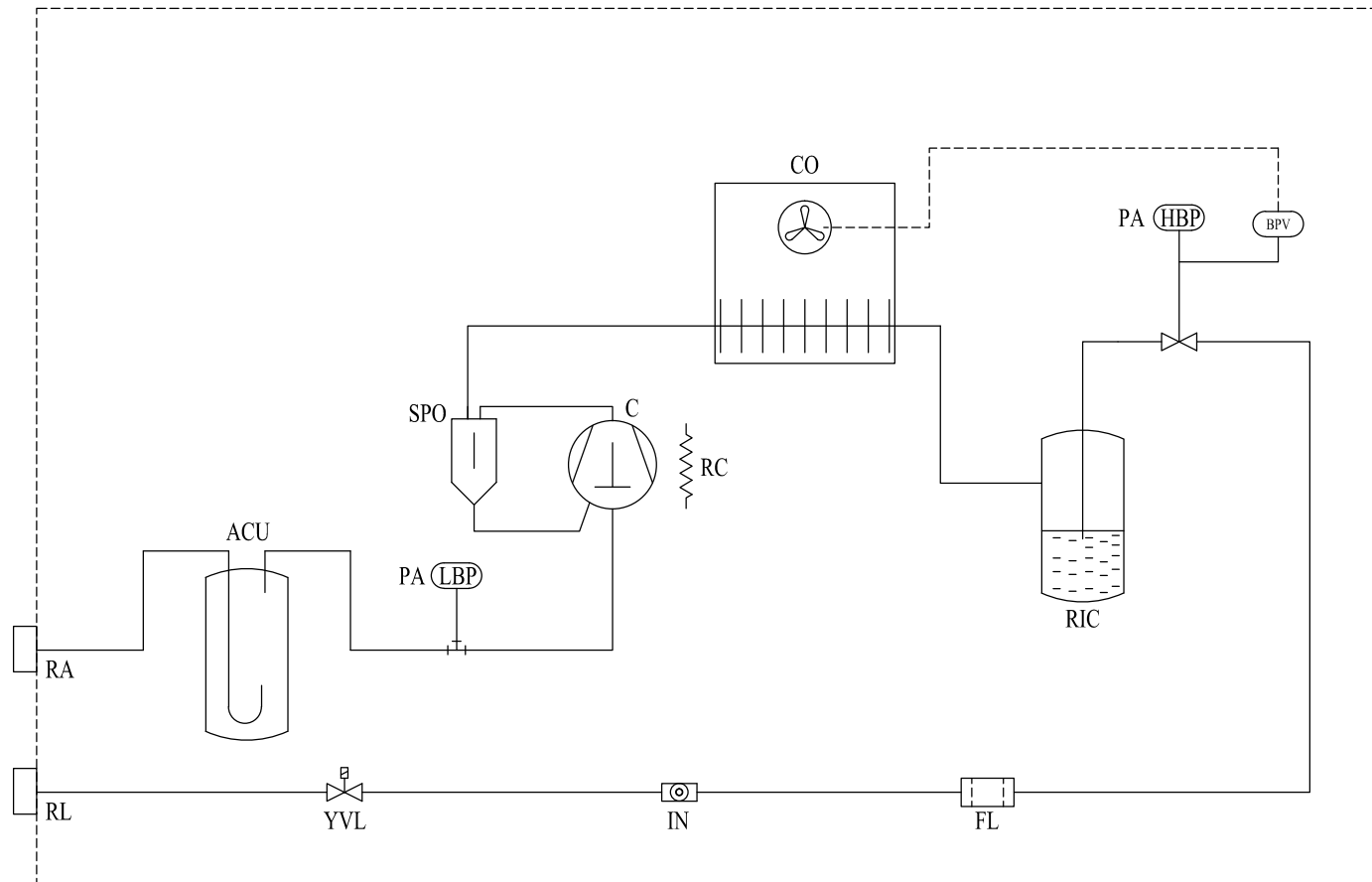


# HUA CONDENSING UNIT/ UNIDAD CONDENSADORA HUA

Code	Condensing unit dimensions			
	L(mm)	W(mm)	A(mm)	H(mm)
HUA 4001...	1000	380	550	525
HUA 4501...	1000	380	550	675
HUA 4501P...	1150	380	646	875
HUA 5001...	1150	380	646	975
*HUA 5001...	1400	480	646	975
HUA 5002...	1300	385	686	1275
*HUA 5002...	1600	485	686	1275
HUA 5002P...	1500	430	886	1275

\* For Copeland semi hermetic compressors.

## SYSTEM DIAGRAM / DIAGRAMA DE SISTEMA



### Accesorios:

- C - Compressor
- CO - Condenser
- RIC - Liquid receiver
- PA - Dual pressure switch
- FL - Filter drier
- IN - Sight glass
- YVL - Liquid solenoid valve
- RL - Liquid shut-off valve
- RA - Suction shut-off valve

### Optional:

- RC - Crankcase heater
- SPO - Oil separator
- BPV - Fan speed controller
- ACU - Suction accumulator

# HUA CONDENSING UNIT/ UNIDAD CONDENSADORA HUA

Tecumseh

## Electric data/ Datos eléctricos

HMBP R404A Code	Compressor Model	Condenser Hp	Surface M <sup>2</sup>	Axial Fan Motor				Absorption W	Absorption A	Noise Dist=10m dBa	Pipe Fittings		N/W Kg	MOC A
				N°XØ	m <sup>3</sup> /h	Poles	220/1/50				D inch	S inch		
HUA 4001Z02 MT	TAJ9510Z	0.75	7.54	1x400	3129	6	▪	125	0.62	33	3/8"	5/8"	51	3.62
HUA 4001Z03 MT	TAJ9513Z	1	11.30	1x400	3129	6	▪	125	0.62	33	3/8"	5/8"	53	4.52
HUA 4501Z03 MT	TAJ4519Z	1.5	15.07	1x450	4467	6	▪	167	0.77	36	3/8"	5/8"	55	5.57
HUA 4501Z04 MS	FH4524Z	2	20.10	1x450	4467	6	▪	167	0.77	38	3/8"	5/8"	70	18.87
HUA 4501Z04 MT	TFH4524Z	2	20.10	1x450	4467	6	▪	167	0.77	38	3/8"	5/8"	70	7.07
HUA 4501Z03P MS	FH4531Z	2.5	27.45	1x450	4467	6	▪	167	0.77	38	3/8"	7/8"	81	27.07
HUA 4501Z03P MT	TFH4531Z	2.5	27.45	1x450	4467	6	▪	167	0.77	38	3/8"	7/8"	81	8.97
HUA 5001Z03 MS	FH4540Z	3	30.88	1x500	5987	6	▪	272	1.28	38	1/2"	7/8"	85	28.28
HUA 5001Z03 MT	TFH4540Z	3	30.88	1x500	5987	6	▪	272	1.28	38	1/2"	7/8"	85	10.48
HUA 5001Z04 MT	TAG4546Z	4	41.18	1x500	5987	6	▪	272	1.28	41	1/2"	7/8"	96	12.68
HUA 5002Z03 MT	TAG4561Z	5	51.47	2x500	11974	6	▪	544	2.56	42	1/2"	7/8"	117	16.56
HUA 5002Z04 MT	TAG4568Z	6	68.63	2x500	11974	6	▪	544	2.56	42	1/2"	7/8"	120	17.76
HUA 5002Z04 MT	TAG4573Z	7	68.63	2x500	11974	6	▪	544	2.56	42	1/2"	7/8"	121	20.56

## Refrigeration capacity/ Capacidad de refrigeración

HMBP R404A Code	Compressor Model	Hp	Performance (w)				
			Evaporating Temperature (°C)				
			+5°C	0°C	-5°C	-10°C	-15°C
HUA 4001Z02 MT	TAJ9510Z	0.75	2723	2198	1757	1384	1067
HUA 4001Z03 MT	TAJ9513Z	1	3396	2706	2126	1637	1225
HUA 4501Z03 MT	TAJ4519Z	1.5	4934	4001	3205	2521	1931
HUA 4501Z04 MS	FH4524Z	2	6061	4796	3724	2813	2035
HUA 4501Z04 MT	TFH4524Z	2	6085	4828	3764	2816	2019
HUA 4501Z03P MS	FH4531Z	2.5	7814	6291	4941	3706	2537
HUA 4501Z03P MT	TFH4531Z	2.5	7704	6149	4824	3689	2707
HUA 5001Z03 MS	FH4540Z	3	9686	7802	6180	4781	3569
HUA 5001Z03 MT	TFH4540Z	3	9821	7899	6259	4851	3633
HUA 5001Z04 MT	TAG4546Z	4	11479	8880	6728	4952	3491
HUA 5002Z03 MT	TAG4561Z	5	14290	11234	8680	6537	4724
HUA 5002Z04 MT	TAG4568Z	6	16785	13304	10379	7919	5842
HUA 5002Z04 MT	TAG4573Z	7	17878	14185	11101	8528	6377

Test condition: Ambient temperature: 35°C, Condensing temperature: 50°C, Subcooling: 6K / Condiciones de prueba: temperatura ambiente: 35°C, temperatura de condensación: 50°C, Subenfriamiento: 6K

The noise levels refer to the average value recored during 24h of daily functioning with fan motors controlled speed, standard housing sound absorption.

Los niveles de ruido se refieren al valor promedio registrado durante 24 horas de funcionamiento con ventiladores, velocidad controlada, absorción de sonido con gabinete estándar.

The nominal capacities calculated according to Eurovent EN 328 standards that refer to ΔT = 15°C conditions and are valid for R404A/R507

The sound pressure levels are calculated according to EN 13487

# HUA CONDENSING UNIT/ UNIDAD CONDENSADORA HUA

Tecumseh

## Electric data/ Datos eléctricos

LBP R404A	Compressor		Condenser	Axial Fan Motor					Noise	Pipe Fittings		N.W	MOC	
	Code	Model		Hp	Surface M <sup>2</sup>	N°XØ	m <sup>3</sup> /h	Poles		220/1/50	Absorption W			A
HUA 4001Z03 LT	CAJ2446Z	1	10.05	1x450	3129	6	•	125	0.62	33	3/8"	1/2"	50	8.67
HUA 4501Z03 LT	TAJ2464Z	1.5	15.07	1x450	4467	6	•	167	0.77	33	3/8"	5/8"	51	4.07
HUA 4501Z04 LS	FH2480Z	2	20.10	1x450	4467	6	•	167	0.77	36	3/8"	5/8"	68	16.77
HUA 4501Z04 LT	TFH2480Z	2	20.10	1x450	4467	6	•	167	0.77	36	3/8"	5/8"	68	5.57
HUA 5001Z03 LS	FH2511Z	2.5	30.88	1x500	5987	6	•	272	1.28	36	1/2"	5/8"	84	25.28
HUA 5001Z03 LT	TFH2511Z	2.5	30.88	1x500	5987	6	•	272	1.28	36	1/2"	5/8"	84	6.28
HUA 5001Z04 LT	TAG2513Z	3.25	41.18	1x500	5987	6	•	272	1.28	42	1/2"	7/8"	114	10.18
HUA 5001Z04 LT	TAG2516Z	4	41.18	1x500	5987	6	•	272	1.28	42	1/2"	7/8"	116	11.09
HUA 5002Z04 LT	TAG2522Z	6	68.63	2x500	11974	6	•	544	2.56	42	1/2"	7/8"	120	15.06
HUA 5002Z04 LT	TAG2525Z	6.5	88.23	2x500	11974	6	•	544	2.56	42	1/2"	7/8"	125	15.90

## Refrigeration capacity/ Capacidad de refrigeración

LBP R404A	Compressor		Performance (w)				
			Evaporating Temperature (°C)				
			-10°C	-15°C	-20°C	-25°C	-30°C
HUA 4001Z03 LT	CAJ2446Z	1	1918	1499	1149	858	618
HUA 4501Z03 LT	TAJ2464Z	1.5	2454	1921	1477	1111	810
HUA 4501Z04 LS	FH2480Z	2	3721	2889	2183	1586	1080
HUA 4501Z04 LT	TFH2480Z	2	3565	2804	2148	1586	1106
HUA 5001Z03 LS	FH2511Z	2.5	5152	3980	2997	2177	1498
HUA 5001Z03 LT	TFH2511Z	2.5	5145	3944	2951	2140	1487
HUA 5001Z04 LT	TAG2513Z	3.25	5791	4297	3087	2118	1353
HUA 5001Z04 LT	TAG2516Z	4	7495	5755	4297	3105	2161
HUA 5002Z04 LT	TAG2522Z	6	9214	7031	5252	3814	2660
HUA 5002Z04P LT	TAG2525Z	8	9866	7647	5796	4263	3001

Test condition: Ambient temperature: 35°C, Condensing temperature: 50°C, Subcooling: 6K / Condiciones de prueba: temperatura ambiente: 35°C, temperatura de condensación: 50°C, Subenfriamiento: 6K

The noise levels refer to the average value recored during 24h of daily functioning with fan motors controlled speed, standard housing sound absorption.

Los niveles de ruido se refieren al valor promedio registrado durante 24 horas de funcionamiento con ventiladores, velocidad controlada, absorción de sonido con gabinete estándar.

The nominal capacities calculated according to Eurovent EN 328 standards that refer to ΔT = 15°C conditions and are valid for R404A/R507

The sound pressure levels are calculated according to EN 13487



# HUA CONDENSING UNIT/ UNIDAD CONDENSADORA HUA

Copeland

## Electric data/ Datos eléctricos

HMBP R404A	Compressor		Condenser	Axial Fan Motor					Noise	Pipe Fittings		N.W	MOC	
	Code	Model		Hp	Surface M <sup>2</sup>	N°XØ	m <sup>3</sup> /h	Poles		220/1/50	Absorption W			A
HUA 4501Z04 MS	ZB15KQE-PFJ	2	20.10	1x450	4467	6	•	167	0.77	36	3/8"	3/4"	58	13.57
HUA 4501Z04 MT	ZB15KQE-TFD	2	20.10	1x450	4467	6	•	167	0.77	36	3/8"	3/4"	58	5.67
HUA 4501Z03P MS	ZB19KQE-PFJ	2.5	2745	1x450	4467	6	•	167	0.77	38	3/8"	3/4"	70	13.17
HUA 4501Z03P MT	ZB19KQE-TFD	2.5	2745	1x450	4467	6	•	167	0.77	38	3/8"	3/4"	70	7.27
HUA 5001Z03 MS	ZB21KQE-PFJ	3	30.88	1x500	5987	6	•	272	1.28	38	1/2"	3/4"	75	17.70
HUA 5001Z03 MT	ZB21KQE-TFD	3	30.88	1x500	5987	6	•	272	1.28	38	1/2"	3/4"	75	8.43
HUA 5001Z03 MT	LJ-30X	3	30.88	1x500	5987	6	•	272	1.28	48.5	1/2"	7/8"	156	8.68
HUA 5001Z04 MT	ZB26KQE-TFD	3.5	41.18	1x500	5987	6	•	272	1.28	38	1/2"	3/4"	77	10.13
HUA 5001Z04 MT	ZB29KQE-TFD	4	41.18	1x500	5987	6	•	272	1.28	41	1/2"	7/8"	99	11.28
HUA 5001Z04 MT	LL-40X	4	41.18	2x500	11974	6	•	544	2.56	49	1/2"	7/8"	292	12.46
HUA 5002Z03 MT	ZB38KQE-TFD	5	51.47	2x500	11974	6	•	544	2.56	42	1/2"	7/8"	104	15.36
HUA 5002Z03 MT	2DD-50X	6	51.47	2x500	11974	6	•	544	2.56	53.6	5/8"	1-1/8"	313	12.86
HUA 5002Z04 MT	ZB45KQE-TFD	6	68.63	2x500	11974	6	•	544	2.56	42	1/2"	7/8"	108	15.66
HUA 5002Z04 MT	ZB48KQE-TFD	7	68.63	2x500	11974	6	•	544	2.56	42	1/2"	7/8"	108	16.56
HUA 5002Z04P MT	ZB58KQE-TFD	8	88.23	2x500	13808	4	•	788	3.92	45	5/8"	1 1/8"	121	19.82
HUA 5002Z05P MT	ZB76KQE-TFD	10	110.29	2x500	13808	4	•	788	3.92	45	5/8"	1 1/8"	130	24.32

## Refrigeration capacity/ Capacidad de refrigeración

HMBP R404A	Compressor		Performance (w)					
			Evaporating Temperature (°C)					
			+5°C	0°C	-5°C	-10°C	-15°C	-20°C
HUA 4501Z04 MS	ZB15KQE-PFJ	2	5580	4590	3730	2990	2340	1750
HUA 4501Z04 MT	ZB15KQE-TFD	2	5580	4590	3730	2990	2340	1750
HUA 4501Z03P MS	ZB19KQE-PFJ	2.5	7030	5810	4770	3890	3130	2500
HUA 4501Z03P MT	ZB19KQE-TFD	2.5	7030	5810	4770	3890	3130	2500
HUA 5001Z03 MS	ZB21KQE-PFJ	3	8440	6980	5720	4660	3750	2990
HUA 5001Z03 MT	ZB21KQE-TFD	3	8440	6980	5720	4660	3750	2990
HUA 5001Z03 MT	LJ-30X	3	12500	10200	8170	6450	4990	3750
HUA 5001Z04 MT	ZB26KQE-TFD	3.5	9870	8150	6690	5440	7390	3490
HUA 5001Z04 MT	ZB29KQE-TFD	4	11450	9460	7770	6320	5100	4060
HUA 5001Z04 MT	LL-40X	4	16600	13450	10700	8400	6460	4830
HUA 5002Z03 MT	ZB38KQE-TFD	5	14450	11950	9800	7980	6430	5120
HUA 5002Z03 MT	2DD-50X	6	17200	13950	11150	8790	6800	5120
HUA 5002Z04 MT	ZB45KQE-TFD	6	16900	14000	11450	9330	7520	5990
HUA 5002Z04 MT	ZB48KQE-TFD	7	18600	15400	12600	10250	8280	6590
HUA 5002Z04P MT	ZB58KQE-TFD	8	22500	18700	15300	12300	9620	7140
HUA 5002Z05P MT	ZB76KQE-TFD	10	29900	24800	20400	16600	13250	10350

Test condition: Ambient temperature: 35°C, Condensing temperature: 50°C, Subcooling: 6K / Condiciones de prueba: temperatura ambiente: 35°C, temperatura de condensación: 50°C, Subenfriamiento: 6K

The noise levels refer to the average value recored during 24h of daily functioning with fan motors controlled speed, standard housing sound absorption and compressor jacket (optional items)

Los niveles de ruido se refieren al valor promedio registrado durante 24 horas de funcionamiento con ventiladores, velocidad controlada, absorción de sonido con gabinete estándar y chaqueta para compresor (items opcionales).

The nominal capacities calculated according to Eurovent EN 328 standards that refer to ΔT = 15°C conditions and are valid for R404A/R507

The sound pressure levels are calculated according to EN 13487







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