



LOCAL HEROES

COLDSTORAGE AND AIRCONDITIONING SPECIFICATIONS AND NOISE DATA



LOCAL HEROES

**COLDSTORES
UP TO 10M²**



UPTO 10M2 CAPACITY

Wintsys®

R452A

MODEL NUMBER	REFRIGERATION OUTPUT 32° amb., 10K superheating, 3K subcooling, Mid/Mid							REFRIG. OUTPUT EN13215 Evap. T -10°C		Aco. P db(A)	Air flow m3/h	Liq. Rec. Vol.	Diam. for tubing O.D.		Net/ Gross weight kg	No. Dim	Maximum current according to voltage code	
	Evaporation temperature (°C):							Perf. (W)	COP (W/W)				Suc.	Liqu. Line			FZ	TZ
	-25°	-15°	-10°	-5°	0°	5°	15°											
WINAE4450Z	368	638	805	1004	1237	1506	2167	820	1.78	27	1650	0.75	3/8"	1/4"	53/71	S	5.6	na
WINAE4460Z	470	771	957	1178	1436	1735	2470	981	1.84	28	1650	0.75	3/8"	1/4"	53/71	S	6.4	na
WINAE4470Z	474	833	1056	1324	1641	2019	3004	1081	1.66	29	1650	0.75	3/8"	1/4"	53/71	S	7.6	na
WINAJ9480Z	607	1027	1286	1590	1943	2348	3329	1316	1.90	30	1650	1.50	1/2"	3/8"	62/80	S	7.3	3.7
WINAJ9510Z	758	1263	1571	1934	2352	2830	3988	1614	1.93	30	1650	1.50	5/8"	3/8"	63/81	S	8.9	4.1
WINAJ9513Z	914	1568	1968	2432	2963	3566	5005	2021	2.08	30	1650	1.50	5/8"	3/8"	65/83	S	11.8	4.9
WINAJ4517Z	1008	1689	2094	2562	3097	3711	5216	2171	1.96	30	1650	2.35	5/8"	3/8"	65/83	S	13.2	4.7
WINAJ4519Z	1130	2093	2596	3171	3828	4587	6519	2708	1.72	32	1650	2.35	5/8"	3/8"	65/83	S	15.5	6.7
WINFH4524Z	1319	2439	3122	3911	4807	5821	8236	3213	1.83	39	2750	2.35	5/8"	1/2"	79/100	M	20.3	8.4
WINFH4531Z	1797	3150	3947	4868	5922	7129	10089	4092	1.90	41	2750	3.90	7/8"	1/2"	83/104	M	23.1	9.7
WINAW4538Z	2174	3851	4814	5877	7027	8267	11132	5008	2.98*	47	2750	3.90	7/8"	1/2"	79/100	M	27.0*	9.7 ^b

Statement of the seasonal COP / na: not applicable / ^a voltage code XC, ^b voltage code XG, ^c voltage code YZ, ^a voltage code MZ

MHBP

Fiche A compresseur A0269-F
Compressor Acoustic data sheet
Taille du chassis S
Frame size

=> CAJ4519Z

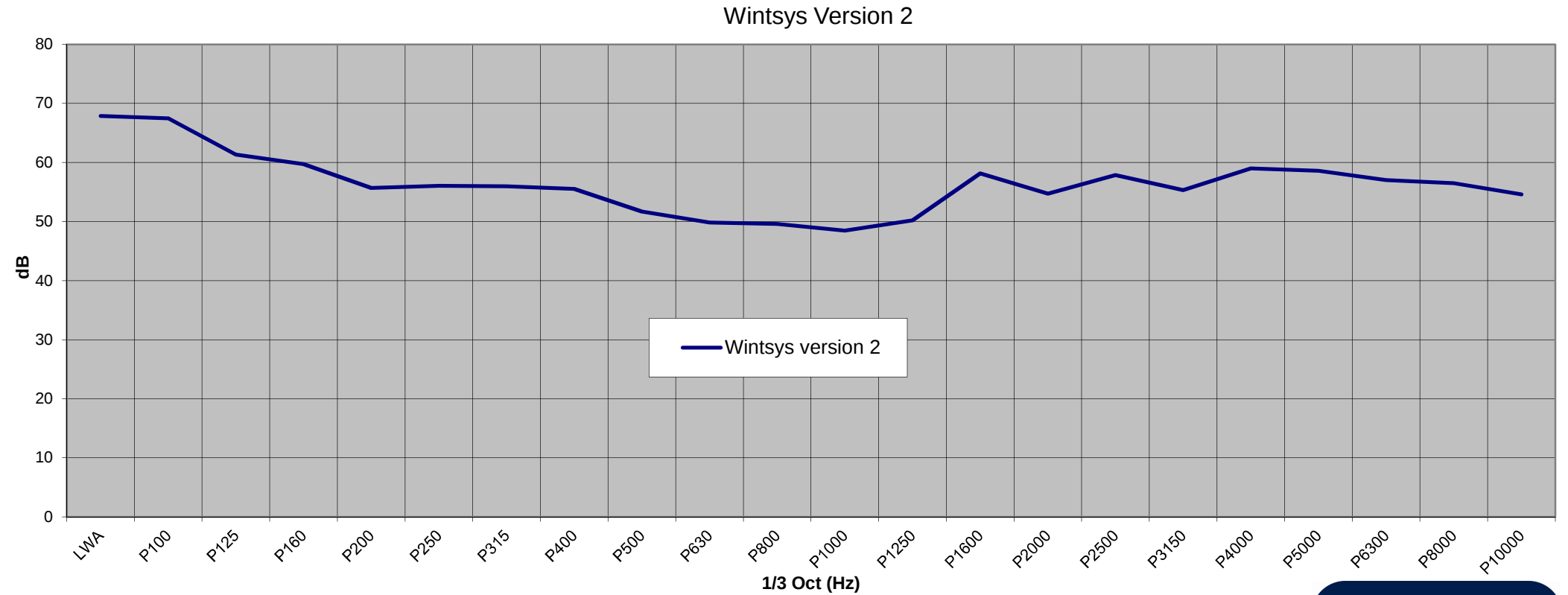
WINAJ4519Z

	FZ	220 / 240V - 50Hz
	TZ	400V - 50Hz
	KZ	220V - 50Hz



Tecumseh

	LWA	P100	P125	P160	P200	P250	P315	P400	P500	P630	P800	P1000	P1250	P1600	P2000	P2500	P3150	P4000	P5000	P6300	P8000	P10000
Wintsys version 2	67.9	67.5	61.3	59.7	55.7	56.1	56.0	55.5	51.7	49.8	49.6	48.5	50.2	58.1	54.7	57.9	55.3	59.0	58.6	57.0	56.5	54.6



Le spectre du groupe de condensation ci-dessus a été obtenu par calcul. C'est le resultat de l'addition de la puissance sonore du compresseur (au point cecomaf) avec celle du ventilateur à pleine vitesse.

Silensys acoustic spectrum was evaluated by calculation. It is the addition of acoustic spectrum of compressor (at cecomaf rating conditions) with the one of fan at full speed.





LOCAL HEROES

COLDSTORES

10M² TO 15M²



10M2~15M2 CAPACITY

Wintsys®

R404A

MODEL NUMBER	REFRIGERATION OUTPUT 32° amb., 10K superheating, 3K subcooling							REFRIG. OUTPUT EN13215 Evap. T -10°C		Aco. P db(A)	Air flow m3/h	Liq. Rec. Vol.	Diam. for tubing O.D.		Net/ Gross weight kg	No. Dim	Maximum current according to voltage code	
	Evaporation temperature (°C):							Perf. (W)	COP (W/W)				Suc.	Liqu. Line			FZ	TZ
	-25°	-15°	-10°	-5°	0°	5°	15°											
WINAE4450Z	370	627	790	980	1199	1450	2065	870	1.81	27	1650	0.75	3/8"	1/4"	53/70	S	5.6	na
WINAE4460Z	476	762	942	1152	1394	1673	2354	1039	1.87	28	1650	0.75	3/8"	1/4"	53/70	S	6.4	na
WINAE4470Z	547	888	1096	1334	1605	1912	2648	1209	1.87	29	1650	0.75	3/8"	1/4"	53/70	S	7.6	na
WINAJ9480Z	614	1014	1266	1556	1888	2265	3172	1396	1.92	30	1650	2.35	1/2"	3/8"	62/79	S	7.3	3.7
WINAJ9510Z	768	1248	1549	1894	2286	2730	3793	1710	1.95	30	1650	2.35	5/8"	3/8"	63/80	S	8.9	4.1
WINAJ9513Z	924	1548	1938	2382	2881	3440	4759	2143	2.10	30	1650	2.35	5/8"	3/8"	65/82	S	11.8	4.9
WINAJ4517Z	1016	1671	2066	2512	3012	3575	4941	2296	1.97	30	1650	2.35	5/8"	3/8"	65/82	S	13.2	4.7
WINAJ4519Z	1223	2068	2562	3108	3719	4408	6141	2860	1.73	32	1650	2.35	5/8"	3/8"	65/82	S	15.5	6.7
WINFH4524Z	1316	2397	3064	3817	4658	5593	7793	3405	1.84	39	2750	3.90	5/8"	1/2"	79/100	M	20.3	8.4
WINFH4531Z	1809	3112	3892	4767	5747	6847	9517	4333	1.91	41	2750	3.90	7/8"	1/2"	83/104	M	23.1	9.7
WINAW4538Z	2203	3774	4704	5724	6828	8007	10621	5239	2.97*	47	2970	3.90	7/8"	1/2"	79/100	M	27.0 ^a	9.7 ^b

Statement of the seasonal COP / na: not applicable / ^a voltage code XC, ^b voltage code XG, ^c voltage code YZ, ^d voltage code MZ

For information, the cooling capacity of fluids R449A and R448A: at the evaporation point To = -30°C, SH10K, apply the multiplier ratio 0.94 to the cooling capacities read with R404A.



Fiche A compresseur 4524ZXC-50
Compressor Acoustic data sheet
Taille du chassis M
Frame size

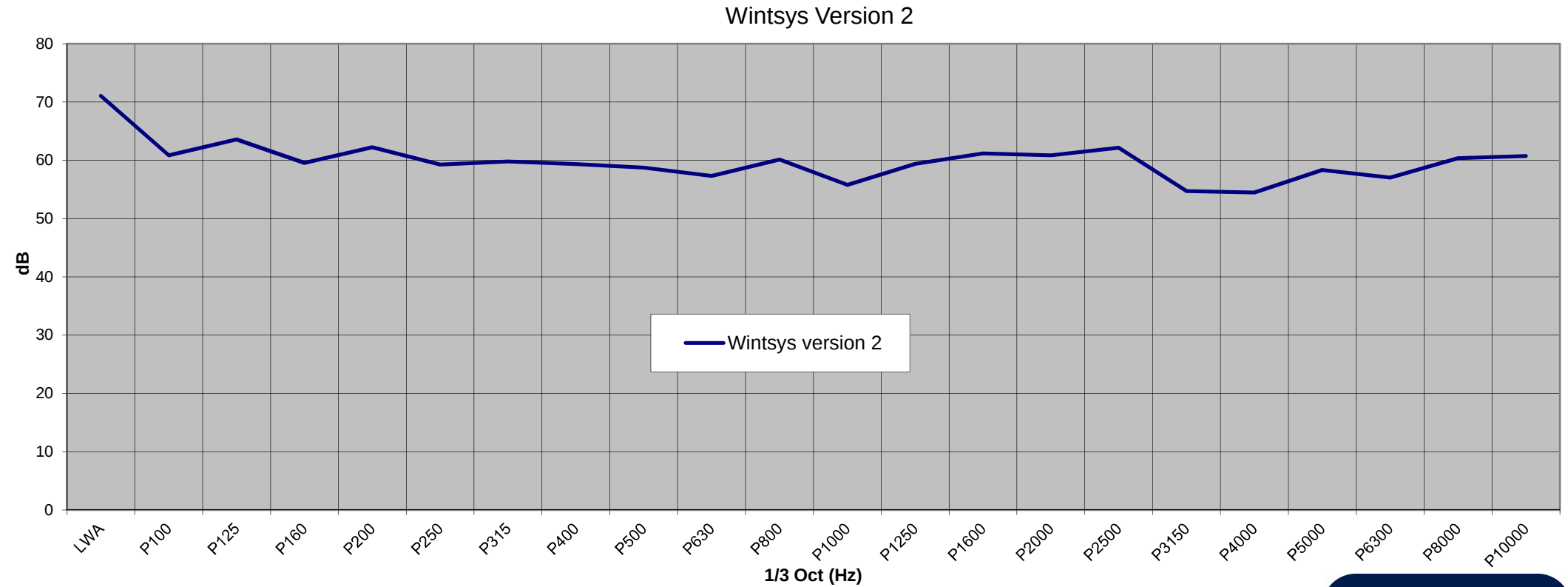
=> FH4524ZXC-50Hz

WINFH4524Z

	XC	220 / 240V - 50Hz
	XG	380-420V-50Hz/460-60Hz
	KZ	220V-50Hz/220V-60Hz



	LWA	P100	P125	P160	P200	P250	P315	P400	P500	P630	P800	P1000	P1250	P1600	P2000	P2500	P3150	P4000	P5000	P6300	P8000	P10000
Wintsys version 2	71.1	60.8	63.6	59.6	62.2	59.3	59.8	59.3	58.8	57.3	60.1	55.8	59.4	61.2	60.9	62.2	54.7	54.5	58.3	57.0	60.4	60.7



Le spectre du groupe de condensation ci-dessus a été obtenu par calcul. C'est le resultat de l'addition de la puissance sonore du compresseur (au point cecomaf) avec celle du ventilateur à pleine vitesse.

Acoustic spectrum was evaluated by calculation. It is the addition of acoustic spectrum of compressor (at cecomaf rating conditions) with the one of fan at full speed.

Nota : dans un constant effort d'amélioration de ses produits, Tecumseh Europe se réserve le droit de faire évoluer les données contenues dans ce document sans avis préalable

Note : in a constant effort to improve products, Tecumseh Europe reserves the right to alter the details in this document without prior notification.





LOCAL HEROES

AIR CONDITIONING

**SINGLE CASSETTE
12-14kw INVERTER**

Toshiba Air Conditioning - RAV-GM Data Sheet

RAV-GM1401ATP-E Outdoor Unit

Features

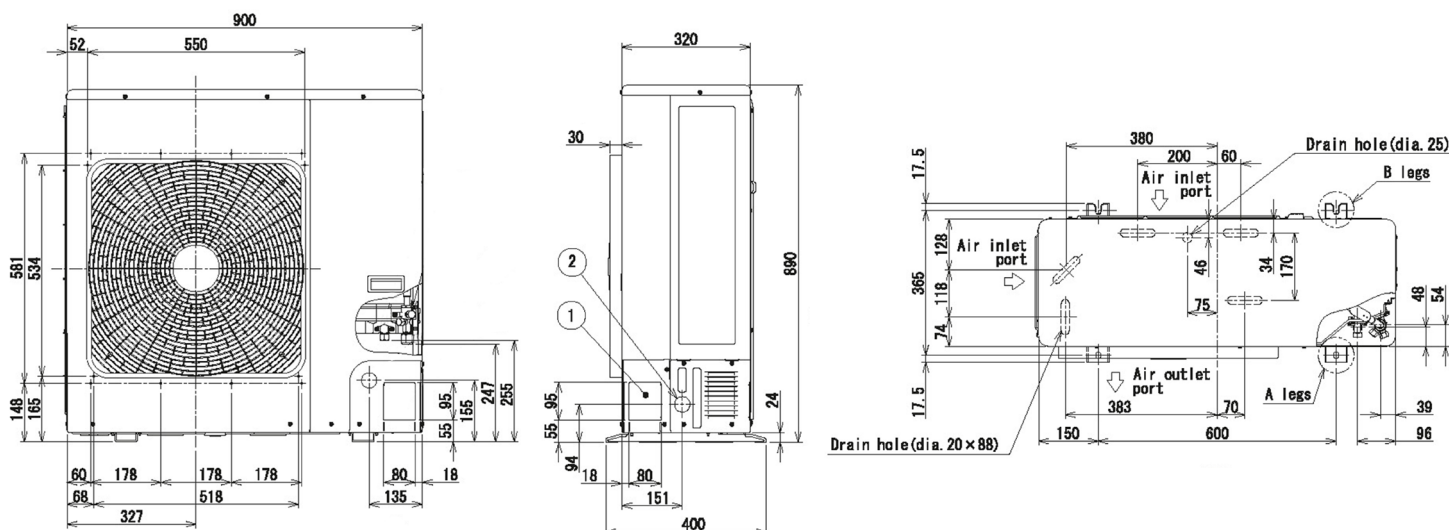
- Redesigned for use with refrigerant R32
- Wide operating range (cooling mode -15°C to +46°C)
- Auto-diagnostic function
- Flexible, can be utilised for single, twin, triple and quad indoor applications
- Compact size



Technical Data

Model reference			RAV-GM1401ATP-E
Nominal	Cooling Capacity	kW	12.0
	Heating Capacity	kW	12.8
Operating Range	Cooling/Heating	°C	-15 to 46/-15 to 15
Air Flow	High	m³/h - l/s	4200 - 1167
Sound	Pressure High Cooling/Heating	dB(A)	55/57
	Power High Cooling/Heating	dB(A)	70/74
Unit	Height x Width x Depth	mm	890 x 900 x 320
	Weight	kg	68
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8
	Min. -Max. Length	m	5-50
	Maximum Height Difference	m	±30
	Drain Port Connection	mm	16
Refrigerant R32	Base Charge/Chargeless Length	kg/m	2.1/30
	Additional Charge Liquid Side	g/m	35
Run Current	Maximum	A	20.75
Power Cable	Outdoor to Indoor		3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-32

Dimensional Drawings



Cool Designs Ltd

Raising the Standards in Air Conditioning Distribution

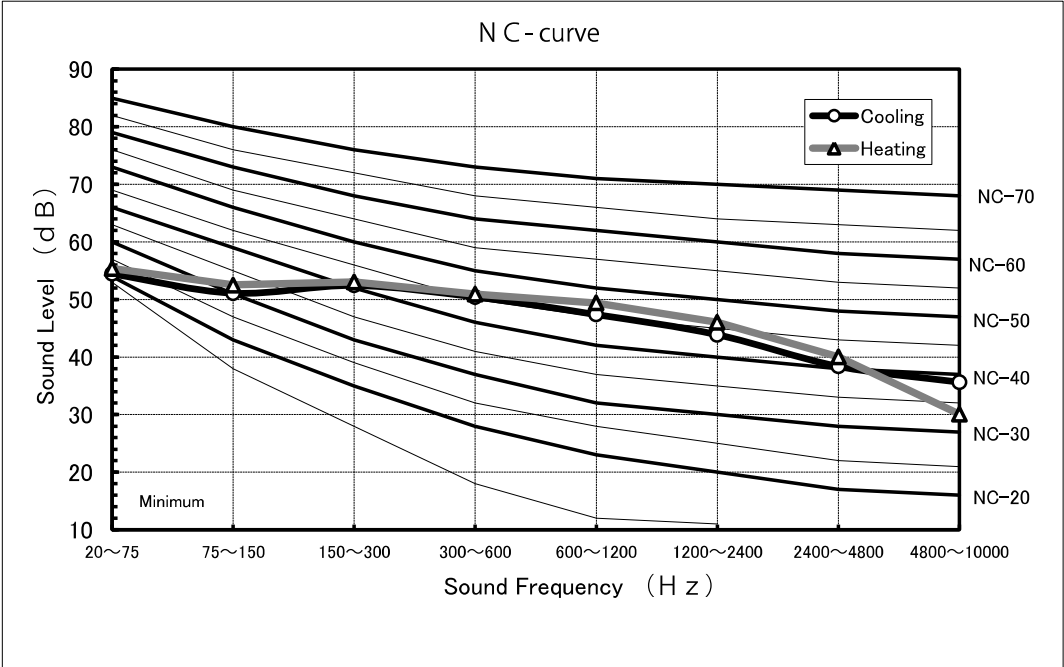
www.cdlweb.info



All UK duties are based on Cooling Indoor air temperature 22°C DB/16°C WB Outdoor air temperature 28°C DB 50% RH, high fan speed, 5 m pipe run.
Heating Indoor air temperature 20°C DB Outdoor air temperature -5°C DB 100% RH, high fan speed, 5 m pipe run. Values are based on the maximum compressor output.
Data obtained from Toshiba Air Conditioning Published Data July 2018.

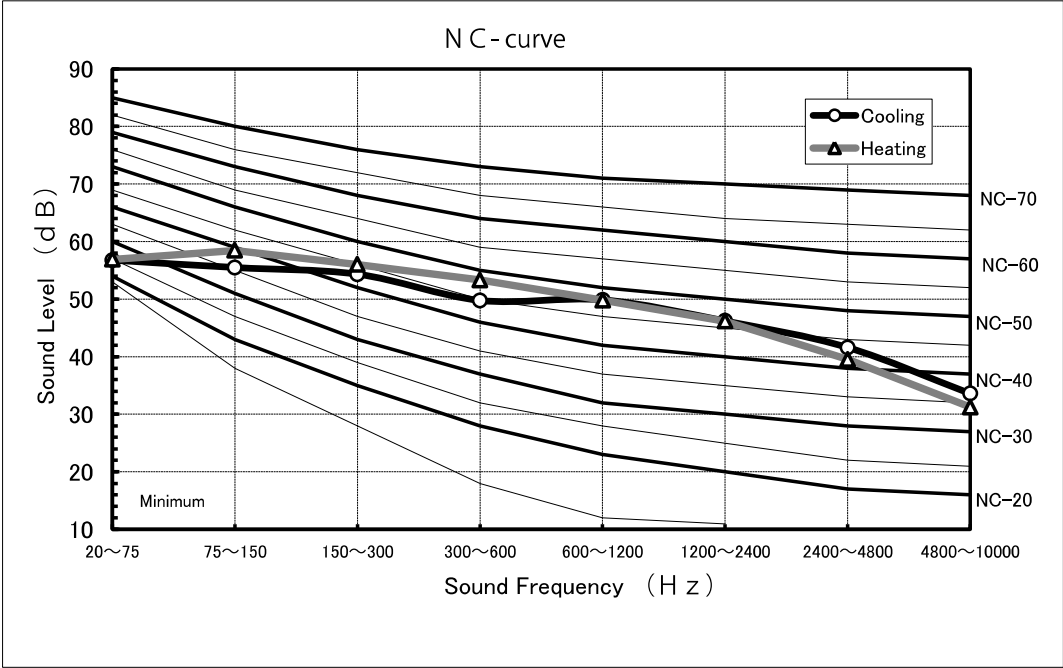
RAV-GM1101ATP-E/TR (*ATJP-E)

Measured point	Specification (d B)	Specification (d B)
	Cooling	Heating
Horizontal 1.0 m	54	57



RAV-GM1401ATP-E/TR (*ATJP-E)

Measured point	Specification (d B)	Specification (d B)
	Cooling	Heating
Horizontal 1.0 m	55	57





LOCAL HEROES

AIR CONDITIONING

DUCTED SYSTEM

16kw INVERTER

Toshiba Air Conditioning - RAV-SM Data Sheet

RAV-SM1603AT-E Outdoor Unit

Features

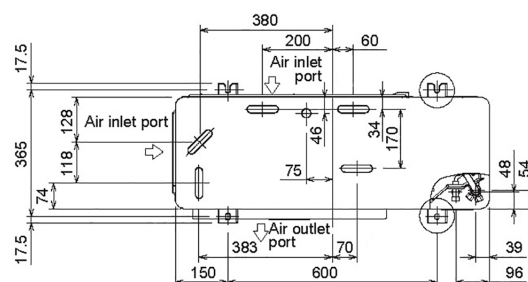
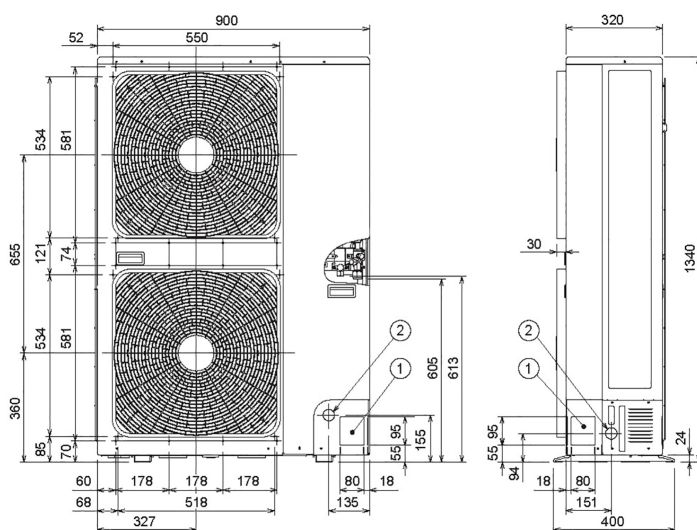
- R22 and R407C replacement technology
- Wide operating range (cooling mode -15°C to +43°C)
- Auto-diagnostic function
- Flexible, can be utilised for single, twin, triple indoor applications
- Compact size



Technical Data

Model reference		RAV-SM1603AT-E
Nominal cooling	kW	14.0
Nominal heating	kW	16.0
Standard air flow	m ³ /h	6180
Standard air flow	l/s	1717
Sound power (cool/heat)	dB(A)	68/70
Sound pressure (cool/heat)	dB(A)	51/53
Dimensions (H x W x D)	mm	1340 x 900 x 320
Unit weight	kg	99
Power supply	V-ph-Hz	220/240-1-50
Interconnecting cable		3 core + earth
Suggested fuse size	A	32
Maximum operating current (cooling)	A	24.54
Operating range, cooling	°C	-15 to 43
Operating range, heating	°C	-15 to 15
Pipe sizes (liquid-suction)	inch	3/8-5/8
Minimum/maximum pipe length	m	5/50
Maximum height difference	m	30
Pre-charge pipe length	m	30
Additional R410A refrigerant - factory charge	g/m - kg	40 - 3.1

Dimensional Drawings



Cool Designs Ltd

Raising the Standards in Air Conditioning Distribution

www.cdlweb.info

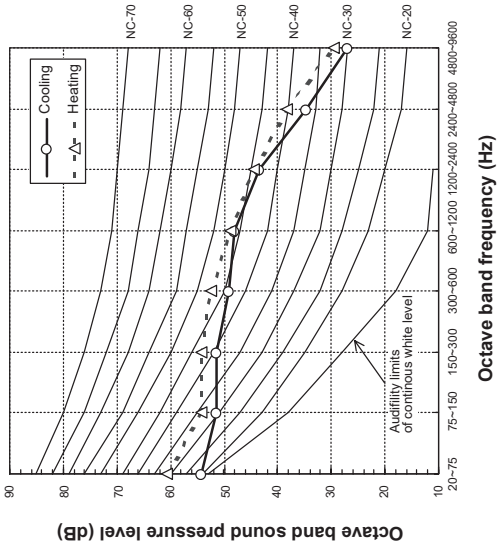


All UK duties are based on Cooling Indoor air temperature 22°C DB/16°C WB Outdoor air temperature 28°C DB 50% RH, high fan speed, 5 m pipe run.
Heating Indoor air temperature 20°C DB Outdoor air temperature -5°C DB 100% RH, high fan speed, 5 m pipe run. Values are based on the maximum compressor output.
Data obtained from Toshiba Air Conditioning Published Data September 2014.

Octave band frequency (Hz)

RAV-SM1103AT-E, RAV-SM1403AT-E

Sound pressure level (dB(A))	Cooling	Heating
53	53	54



Octave band frequency (Hz)

RAV-SM1603AT-E

Sound pressure level (dB(A))	Cooling	Heating
51	51	53

