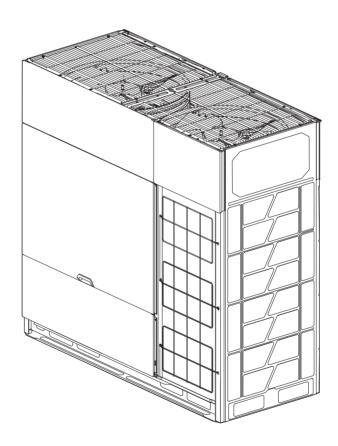
Gjohnson

SISTEMAS VRV UD. EXTERIOR

VRF SYSTEM OUTDOOR UNIT SYSTÈME VRV UNITÉ EXTÉRIEURE SISTEMA VRV UNIDADE EXTERIOR



SERIE JR8V

REQUISITOS DE
INFORMACIÓN
INFORMATION REQUIREMENTS
BESOINS D'INFORMATION
REQUISITOS DE INFORMAÇÃO



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1 FOR JR8V COMBINABLE SERIES

8HP

Cooling mode:

Info	ormatic	n requ	irements	s 1	for air-to-air cond	itione	rs	
Model(s):VARO252R8\ Test matching indoor u		assette: 1×V	ARI45CSTC+3	3×\	/ARI71CST			
Outdoor side heat exch	anger of air	conditioner	: air					
Indoor side heat excha	nger of air c	onditioner: a	air					
Type: compressor drive	en							
Driver of compressor: e	electric moto	or						
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated cooling capacity	Prated,c	25.20	kW		Seasonal space cooling energy efficiency	ηs,c	290.3	%
Declared cooling ca temperatures T _j an					Declared energy efficiency ra /auxiliary energy factor fo temper			
Tj=+35°C	Pdc	25.20	kW		Tj=+35°C	EERd	3.21	
Tj=+30°C	Pdc	18.57	kW		Tj=+30°C	EERd	4.96	
Tj=+25°C	Pdc	11.94	kW		Tj=+25°C	EERd	8.35	
T _j =+20°C	Pdc	7.83	kW		Tj=+20°C	EERd	16.60	
Degradation co-efficient for air conditioners(*)	Cdc	0.25						
		Power consi	umption in mo	des	s other than "active mode"			
Off mode	Poff	0.005	kW		Crankcase heater mode	Рск	0.005	kW
Thermosat-off mode	Рто	0.005	kW		Standby mode	PsB	0.005	kW
	•	1	Othe	er it	ems		•	•
Capacity control		variable			For air-to-air air conditioner: air flow rate, outdoor measured		12600	m³/h
Sound power level, outdoor	Lwa	83	dB					
GWP of the refrigerant		2088	kg CO _{2 eq} (100years)					
Contact details								

Contact details

(*)If Cdc is not determined by measurement, then the default degradation coefficient of heat pumps shall be 0.25.

Heating mode:

	Infor	mation	requirer	nents for heat pum	ps		
Model(s):VARO252R8							
Test matching indoor u				3×VARI71CST			
Outdoor side heat exch							
Indoor side heat exchar	nger of air c	onditioner: a	air				
If the heater is equipped	d with a sup	plementary	heater: no				
Driver of compressor: e	lectric moto	r					
Parameters shall be de optional.	clared for th	ie average h	eating season	, parameters for the warmer and	colder hea	ating seaso	ons are
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	Prated,h	25.20	kW	Seasonal space heating energy efficiency	ηs,h	170.0	%
Declared heating teperature 20°C				Declared coefficient of pe efficiency/auxiliary energy outdoor ten	factor for	part load a	
Tj=-7°C	Pdh	12.12	kW	Tj=-7°C	COPd	2.68	
Tj=+2°C	Pdh	7.38	kW	Tj=+2°C	COPd	4.17	
Tj=+7°C	Pdh	5.57	kW	Tj=+7°C	COPd	6.11	
Tj=+12°C	Pdh	6.24	kW	Tj=+12°C	COPd	7.65	
Тыv=bivalent temperature	Pdh	13.70	kW	T _{biv} =bivalent temperature	COPd	2.26	
ToL=operation temperature	Pdh	13.70	kW	ToL =operation temperature	COPd	2.26	
Bivalent temperature	Tbiv	-10	°C				
Degradation co-efficient for heat pumps(**)	Cdh	0.25					
Power consumption in a	modes othe	r than "activ	e mode"	Suppleme	ntary heate	er	
Off mode	Poff	0.005	kW	Back-up heating capacity(*)	elbu	0	kW
Thermosat-off mode	Рто	0.005	kW	Type of energy input			•
Crankcase heater mode	Рск	0.005	kW	Standby mode	PsB	0.005	kW
		ı	Othe	r items			
Capacity control		variable		For air-to-air heat pump: air flow rate, outdoor measured		12600	m³/h
Sound power level,outdoor	Lwa	83	dB				
GWP of the refrigerant		2088	kg CO _{2 eq} (100years)				
Contact details							
(*)							
(**)If Cdh is not determin	ned by meas	surement, th	en the default	degradation coefficient of heat p	umps shall	l be 0.25.	
				result and performance data ma unit(s) recommended by the ma			

Cooling mode:

Info	ormatio	n requ	irement	S	for air-to-air cond	litione	rs	
Model(s):VARO280R8\ Test matching indoor ur	/ nits form, ca	ssette: 3×V	ARI71CST+1	×V/	ARI80CST			
Outdoor side heat exch	anger of air	conditioner	air					
Indoor side heat exchai	nger of air c	onditioner: a	air					
Type: compressor drive	n							
Driver of compressor: e	lectric moto	or						
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated cooling capacity	Prated,c	28.00	kW		Seasonal space cooling energy efficiency	ηs,c	287.0	%
Declared cooling cap temperatures T _j an					Declared energy efficiency ra /auxiliary energy factor fo temper			
Tj=+35°C	Pdc	28.00	kW		Tj=+35°C	EERd	3.20	
Tj=+30°C	Pdc	20.63	kW		Tj=+30°C	EERd	4.81	
Tj=+25°C	Pdc	13.26	kW		Tj=+25°C	EERd	8.15	
Tj=+20°C	Pdc	7.97	kW		Tj=+20°C	EERd	17.03	
Degradation co-efficient for air conditioners(*)	Cdc	0.25						
		Power consu	umption in mo	odes	s other than "active mode"			
Off mode	Poff	0.005	kW		Crankcase heater mode	Рск	0.005	kW
Thermosat-off mode	Рто	0.005	kW		Standby mode	PsB	0.005	kW
			Oth	er it	tems			•
Capacity control		variable			For air-to-air air conditioner: air flow rate, outdoor measured		12600	m³/h
Sound power level, outdoor	Lwa	84	dB					
GWP of the refrigerant		2088	kg CO _{2 eq} (100years)					
Contact details								

Contact details

(*)If Cdc is not determined by measurement, then the default degradation coefficient of heat pumps shall be 0.25.

Heating mode:

	Infor	mation	requirer	ments for heat pum	ps		
Model(s):VARO280R8							
Test matching indoor u				×VARI80CST			
Outdoor side heat exch							
Indoor side heat exchar							
If the heater is equipped	d with a sup	plementary	heater: no				
Driver of compressor: e							
Parameters shall be de optional.	clared for th	ie average h	eating seasor	n, parameters for the warmer and	colder hea	ating seaso	ons are
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	Prated,h	28.00	kW	Seasonal space heating energy efficiency	ηs,h	167.7	%
Declared heating teperature 20°C				Declared coefficient of pe efficiency/auxiliary energy outdoor ter	factor for	oart load a	
Tj=-7°C	Pdh	14.15	kW	Tj=-7°C	COPd	2.50	-
Tj=+2°C	Pdh	8.62	kW	Tj=+2°C	COPd	4.07	
Tj=+7°C	Pdh	5.77	kW	Tj=+7°C	COPd	6.18	
Tj=+12°C	Pdh	6.45	kW	Tj=+12°C	COPd	7.73	
T _{biv} =bivalent temperature	Pdh	16.00	kW	T _{biv} =bivalent temperature	COPd	2.10	
ToL=operation temperature	Pdh	16.00	kW	ToL =operation temperature	COPd	2.10	
Bivalent temperature	Tbiv	-10	°C				
Degradation co-efficient for heat pumps(**)	Cdh	0.25					
Power consumption in r	modes othe	r than "activ	e mode"	Suppleme	ntary heate	er	
Off mode	Poff	0.005	kW	Back-up heating capacity(*)	elbu	0	kW
Thermosat-off mode	Рто	0.005	kW	Type of energy input			
Crankcase heater mode	Рск	0.005	kW	Standby mode	PsB	0.005	kW
		l	Othe	er items			
Capacity control		variable		For air-to-air heat pump: air flow rate, outdoor measured		12600	m³/h
Sound power level,outdoor	Lwa	84	dB				
GWP of the refrigerant		2088	kg CO _{2 eq} (100years)				
Contact details							
(*)							
(**)If Cdh is not determin	ned by meas	surement, th	en the default	degradation coefficient of heat p	umps shall	be 0.25.	
				t result and performance data ma r unit(s) recommended by the ma			

Cooling mode:

Info	ormatic	n requ	irements	for air-to-ai	r cond	itione	rs		
Model(s):VARO335R8\ Test matching indoor un		ssette: 3×V	ARI45CSTC+3	×VARI71CST					
Outdoor side heat exch	anger of air	conditioner	air						
Indoor side heat exchai	nger of air c	onditioner: a	nir						
Type: compressor drive	n								
Driver of compressor: e	lectric moto	or							
Item	Symbol	Value	Unit	Item		Symbol	Value	Unit	
Rated cooling capacity	Prated,c	33.50	kW	Seasonal space of energy efficiency	ooling	ηs,c	284.5	%	
Declared cooling cap temperatures T _j an				Declared energy of /auxiliary energy	gy factor fo				
Tj=+35°C Pdc 33.50 kW Tj=+35°C EERd 2.86									
Tj=+30°C	Pdc	24.68	kW	Tj=+30°C		EERd	4.84		
Tj=+25°C	Pdc	15.87	kW	Tj=+25°C		EERd	8.23		
Tj=+20°C	Pdc	8.87	kW	Tj=+20°C		EERd	16.68		
Degradation co-efficient for air conditioners(*)	Cdc	0.25							
	!	Power consu	umption in mo	es other than "active	mode"				
Off mode	Poff	0.005	kW	Crankcase heater	mode	Рск	0.005	kW	
Thermosat-off mode	Рто	0.005	kW	Standby mode		PsB	0.005	kW	
			Othe	items					
Capacity control		variable		For air-to-air air co air flow rate, outdo measured			13500	m³/h	
Sound power level, outdoor	Lwa	85	dB						
GWP of the refrigerant		2088	kg CO _{2 eq} (100years)						

Contact details

(*)If Cdc is not determined by measurement, then the default degradation coefficient of heat pumps shall be 0.25.

Heating mode:

	Infor	mation	requiren	nents for heat pum	ps		
Model(s):VARO335R8' Test matching indoor u		assette: 3×V	'ARI45CSTC+3	3×VARI71CST			
Outdoor side heat exch	anger of air	conditioner	: air				
Indoor side heat exchar	nger of air c	onditioner: a	air				
If the heater is equipped	d with a sup	plementary	heater: no				
Driver of compressor: e	lectric moto	r					
Parameters shall be de optional.	clared for th	ne average h	eating season	, parameters for the warmer and	colder hea	ating seaso	ons are
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	Prated,h	33.50	kW	Seasonal space heating energy efficiency	ηs,h	168.5	%
Declared heating teperature 20°C				Declared coefficient of pe efficiency/auxiliary energy outdoor ten	factor for	part load a	sation t given
Tj=-7°C	Pdh	16.28	kW	Tj=-7°C	COPd	2.50	
Tj=+2°C	Pdh	9.91	kW	Tj=+2°C	COPd	3.97	
Tj=+7°C	Pdh	6.37	kW	Tj=+7°C	COPd	6.50	
Tj=+12°C	Pdh	6.44	kW	Tj=+12°C	COPd	8.30	
T _{biv} =bivalent temperature	Pdh	18.40	kW	T _{biv} =bivalent temperature	COPd	2.18	
ToL=operation temperature	Pdh	18.40	kW	ToL =operation temperature	COPd	2.18	-
Bivalent temperature	Tbiv	-10	°C				
Degradation co-efficient for heat pumps(**)	Cdh	0.25					
Power consumption in r	nodes othe	r than "activ	e mode"	Suppleme	ntary heate	er	
Off mode	Poff	0.005	kW	Back-up heating capacity(*)	elbu	0	kW
Thermosat-off mode	Рто	0.005	kW	Type of energy input			
Crankcase heater mode	Рск	0.005	kW	Standby mode	PsB	0.005	kW
		•	Other	items		•	
Capacity control		variable		For air-to-air heat pump: air flow rate, outdoor measured		13500	m³/h
Sound power level,outdoor	Lwa	85	dB				
GWP of the refrigerant		2088	kg CO _{2 eq} (100years)				
Contact details							
(*)							
(**)If Cdh is not determin	ed by meas	surement, th	en the default	degradation coefficient of heat p	umps shal	l be 0.25.	
				result and performance data ma unit(s) recommended by the ma			

Cooling mode:

Info	ormatic	n requ	irement	S	for air-to-air cond	litione	rs	
Model(s):VARO400R8V								
Test matching indoor up				4×\	VARI80CST			
Outdoor side heat exch	anger of air	conditioner	: air					
Indoor side heat excha	nger of air c	onditioner: a	air					
Type: compressor drive	en							
Driver of compressor: e	electric moto	or						
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated cooling capacity	Prated,c	40.00	kW		Seasonal space cooling energy efficiency	ηs,c	288.1	%
Declared cooling ca temperatures T _j an					Declared energy efficiency radiation / auxiliary energy factor fo temper			
Tj=+35°C	Pdc	40.00	kW		Tj=+35°C	EERd	2.85	
Tj=+30°C	Pdc	29.47	kW		Tj=+30°C	EERd	4.78	
Tj=+25°C	Pdc	18.95	kW		Tj=+25°C	EERd	8.25	
T _j =+20°C	Pdc	8.42	kW		Tj=+20°C	EERd	17.63	
Degradation co-efficient for air conditioners(*)	Cdc	0.25						
		Power consu	umption in mo	de	s other than "active mode"			
Off mode	Poff	0.005	kW		Crankcase heater mode	Рск	0.005	kW
Thermosat-off mode	Рто	0.005	kW		Standby mode	PsB	0.005	kW
			Othe	er it	tems			
Capacity control		variable			For air-to-air air conditioner: air flow rate, outdoor measured		15600	m³/h
Sound power level, outdoor	Lwa	86	dB					
GWP of the refrigerant		2088	kg CO _{2 eq} (100years)					
Contact details		•						
(*)If () : + - +			41	ــا ــ		الحمام ممسم	h = 0.0F	

(*)If Cdc is not determined by measurement, then the default degradation coefficient of heat pumps shall be 0.25.

Heating mode:

Information requirements for heat pumps

Model(s):VARO400R8V

Test matching indoor units form, cassette: 2×VARI45CSTC+4×VARI80CST

Outdoor side heat exchanger of air conditioner: air

Indoor side heat exchanger of air conditioner: air

If the heater is equipped with a supplementary heater: no

Driver of compressor: electric motor

Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.

•									
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit		
Rated heating capacity	Prated,h	40.00	kW	Seasonal space heating energy efficiency	ηs,h	171.8	%		
Declared heating teperature 20°C				Declared coefficient of poefficiency/auxiliary energical outdoor te		part load a			
Tj=-7°C	Pdh	19.46	kW	Tj=-7°C	COPd	2.58			
Tj=+2°C	Pdh	11.85	kW	Tj=+2°C	COPd	4.11			
Tj=+7°C	Pdh	7.62	kW	Tj=+7°C	COPd	6.43			
Tj=+12°C	Pdh	7.79	kW	Tj=+12°C	COPd	8.16			
T _{biv} =bivalent temperature	Pdh	22.00	kW	T _{biv} =bivalent temperature	COPd	2.16			
ToL=operation temperature	Pdh	22.00	kW	ToL =operation temperature	COPd	2.16			
Bivalent temperature	Tbiv	-10	°C						
Degradation co-efficient for heat pumps(**)	Cdh	0.25							
Power consumption in	modes othe	r than "activ	e mode"	Suppleme	Supplementary heater				
Off mode	Poff	0.005	kW	Back-up heating capacity(*)	elbu	0	kW		
Thermosat-off mode	Рто	0.005	kW	Type of energy input		•	•		
Crankcase heater mode	Рск	0.005	kW	Standby mode	PsB	0.005	kW		
			Othe	r items	•		•		
Capacity control		variable		For air-to-air heat pump: air flow rate, outdoor measured		15600	m³/h		
Sound power level,outdoor	Lwa	86	dB						
GWP of the refrigerant		2088	kg CO _{2 eq} (100years)						
Contact details									

Contact details

(*)

(**)If Cdh is not determined by measurement, then the default degradation coefficient of heat pumps shall be 0.25.

Cooling mode:

Info	ormatic	n requ	irements	s f	for air-to-air cond	itione	rs				
Model(s):VARO450R8\ Test matching indoor ur		assette: 1×V/	ARI71CST+5×	٠VA	ARI80CST						
Outdoor side heat exch	anger of air	conditioner	air								
Indoor side heat exchar	nger of air c	onditioner: a	air								
Type: compressor drive	n										
Driver of compressor: e	lectric moto	or									
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit			
Rated cooling capacity	Prated,c	45.00	kW		Seasonal space cooling energy efficiency	ηs,c	270.1	%			
Declared cooling cap temperatures T _j and					Declared energy efficiency ra /auxiliary energy factor fo temper						
Tj=+35°C Pdc 45.00 kW Tj=+35°C EERd 2.45											
Tj=+30°C	Pdc	33.16	kW		Tj=+30°C	EERd	4.38				
Tj=+25°C	Pdc	21.32	kW		Tj=+25°C	EERd	7.93				
T _j =+20°C	Pdc	9.47	kW		T _j =+20°C	EERd	17.87				
Degradation co-efficient for air conditioners(*)	Cdc	0.25									
	ļ	Power consu	umption in mod	des	other than "active mode"						
Off mode	Poff	0.005	kW		Crankcase heater mode	Рск	0.005	kW			
Thermosat-off mode	Рто	0.005	kW		Standby mode	PsB	0.005	kW			
		•	Othe	r ite	ems	•		•			
Capacity control		variable			For air-to-air air conditioner: air flow rate, outdoor measured		15600	m³/h			
Sound power level, outdoor	Lwa	86	dB								
GWP of the refrigerant		2088	kg CO _{2 eq} (100years)								
Contact details											

(*)If C_{dc} is not determined by measurement, then the default degradation coefficient of heat pumps shall be 0.25.

Heating mode:

Information requirements for heat pumps

Model(s):VARO450R8V

Test matching indoor units form, cassette: 1×VARI71CST+5×VARI80CST

Outdoor side heat exchanger of air conditioner: air

Indoor side heat exchanger of air conditioner: air

If the heater is equipped with a supplementary heater: no

Driver of compressor: electric motor

Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are

optional.									
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit	
Rated heating capacity	Prated,h	45.00	kW		Seasonal space heating energy efficiency	ηs,h	167.7	%	
Declared heating teperature 20°0					Declared coefficient of performance or gas utilis efficiency/auxiliary energy factor for part load at outdoor temperatures T _j				
Tj=-7°C	Pdh	21.89	kW		Tj=-7°C	COPd	2.47		
Tj=+2°C	Pdh	13.33	kW		Tj=+2°C	COPd	4.00		
Tj=+7°C	Pdh	8.57	kW		Tj=+7°C	COPd	6.36		
Tj=+12°C	Pdh	8.01	kW		Tj=+12°C	COPd	8.18		
T _{biv} =bivalent temperature	Pdh	24.75	kW		Tbiv =bivalent temperature	COPd	2.06		
ToL=operation temperature	Pdh	24.75	kW		ToL =operation temperature	COPd	2.06		
Bivalent temperature	Tbiv	-10	°C					-	
Degradation co-efficient for heat pumps(**)	Cdh	0.25							
Power consumption in	modes othe	r than "active	e mode"		Supplementary heater				
Off mode	Poff	0.005	kW		Back-up heating capacity(*)	elbu	0	kW	
Thermosat-off mode	Рто	0.005	kW		Type of energy input			•	
Crankcase heater mode	Рск	0.005	kW		Standby mode	PsB	0.005	kW	
			Othe	er ite	ems				
Capacity control		variable			For air-to-air heat pump: air flow rate, outdoor measured		15600	m³/h	
Sound power level,outdoor	Lwa	86	dB						
GWP of the refrigerant		2088	kg CO _{2 eq} (100years)						
Contact details									

^(**)If Cdh is not determined by measurement, then the default degradation coefficient of heat pumps shall be 0.25.

Cooling mode:

Info	ormatic	n requ	irement	s f	or air-to-air cond	itione	rs	
Model(s):VARO500R8\ Test matching indoor ui		ssette:2×VA	RI45CSTC+6	3×V	ARI71CST			
Outdoor side heat exch	anger of air	conditioner	air					
Indoor side heat excha	nger of air c	onditioner: a	iir					
Type: compressor drive	en							
Driver of compressor: e	electric moto	or						
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated cooling capacity	Prated,c	50.00	kW		Seasonal space cooling energy efficiency	ηs,c	278.2	%
Declared cooling cap temperatures T _j an					Declared energy efficiency ra /auxiliary energy factor fo temper			
Tj=+35°C	Pdc	50.00	kW		Tj=+35°C	EERd	2.76	
Tj=+30°C	Pdc	36.84	kW		Tj=+30°C	EERd	4.62	
Tj=+25°C	Pdc	23.68	kW		Tj=+25°C	EERd	8.08	
Tj=+20°C	Pdc	10.81	kW		T _j =+20°C	EERd	16.16	
Degradation co-efficient for air conditioners(*)	Cdc	0.25						
		Power consu	ımption in mo	des	other than "active mode"			
Off mode	Poff	0.005	kW		Crankcase heater mode	Рск	0.005	kW
Thermosat-off mode	Рто	0.005	kW		Standby mode	PsB	0.005	kW
			Othe	er ite	ems			
Capacity control		variable			For air-to-air air conditioner: air flow rate, outdoor measured		22000	m³/h
Sound power level, outdoor	Lwa	88	dB					
GWP of the refrigerant		2088	kg CO _{2 eq} (100years)					

Contact details

(*)If Cdc is not determined by measurement, then the default degradation coefficient of heat pumps shall be 0.25.

Heating mode:

Information requirements for heat pumps Model(s):VARO500R8V Test matching indoor units form, cassette:2×VARI45CSTC+6×VARI71CST Outdoor side heat exchanger of air conditioner: air Indoor side heat exchanger of air conditioner: air If the heater is equipped with a supplementary heater: no Driver of compressor: electric motor Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional. Item Symbol Value Unit Item Symbol Value Unit Seasonal space heating Rated heating capacity Prated,h 50.00 kW $\eta_{\text{s},\text{h}}$ 167.0 % energy efficiency Declared coefficient of performance or gas utilisation Declared heating capacity for part load at indoor efficiency/auxiliary energy factor for part load at given teperature 20°C and outdoor temperatures Ti outdoor temperatures Tj T_i=-7°C T_i=-7°C COPd 2.55 Pdh24.33 T_i=+2°C Pdh 14.81 kW T_i=+2°C COPd 3.89 $T_i=+7^{\circ}C$ Pdh9.52 kW $T_i = +7^{\circ}C$ COPd 6.58 Tj=+12°C Tj=+12°C Pdh6.27 kW COP_d 7.30 Tbiv=bivalent Pdh kW 27.50 Tbiv =bivalent temperature 2.13 COPd temperature To_L=operation Pdh kW COPd 27.50 Tol =operation temperature 2.13 temperature Bivalent temperature -10 °C Tbiv Degradation co-efficient for C^dh 0.25 heat pumps(**) Power consumption in modes other than "active mode" Supplementary heater Back-up heating capacity(*) Off mode Poff 0.005 elbu 0 kW Type of energy input Thermosat-off mode Рто 0.005 kW Standby mode Crankcase heater mode Рск 0.005 kW PsB 0.005 kW Other items For air-to-air heat pump: air 22000 m³/h Capacity control variable flow rate, outdoor measured Sound power 88 dΒ Lwa level,outdoor kg CO2 eq GWP of the refrigerant 2088 (100years) Contact details (**)If Cdh is not determined by measurement, then the default degradation coefficient of heat pumps shall be 0.25. Where information relates to multi-split heat pumps, xthe test result and performance data may be obtained on the basis of

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performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.

Cooling mode:

Info	ormatic	n requ	irement	S	for air-to-air cond	itione	rs	
Model(s):VARO560R8\	/							
Test matching indoor ur	nits form, ca	ssette: 8×V/	ARI71CST					
Outdoor side heat exch	anger of air	conditioner	air					
Indoor side heat exchar	nger of air c	onditioner: a	nir					
Type: compressor drive	n							
Driver of compressor: e	lectric moto	r						
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated cooling capacity	Prated,c	56.00	kW		Seasonal space cooling energy efficiency	ηs,c	262.2	%
Declared cooling cap temperatures T _j and					Declared energy efficiency ra /auxiliary energy factor fo temper			
Tj=+35°C	Pdc	56.00	kW		Tj=+35°C	EERd	2.54	
Tj=+30°C	Pdc	41.26	kW		Tj=+30°C	EERd	4.37	
Tj=+25°C	Pdc	26.53	kW		Tj=+25°C	EERd	7.60	
Tj=+20°C	Pdc	11.79	kW		Tj=+20°C	EERd	15.60	
Degradation co-efficient for air conditioners(*)	Cdc	0.25						
		Power consu	umption in mo	odes	s other than "active mode"			
Off mode	Poff	0.005	kW		Crankcase heater mode	Рск	0.005	kW
Thermosat-off mode	Рто	0.005	kW		Standby mode	PsB	0.005	kW
			Oth	er it	ems			
Capacity control		variable			For air-to-air air conditioner: air flow rate, outdoor measured		22000	m³/h
Sound power level, outdoor	Lwa	89	dB					
GWP of the refrigerant		2088	kg CO _{2 eq} (100years)					

Contact details

(*)If Cdc is not determined by measurement, then the default degradation coefficient of heat pumps shall be 0.25.

Heating mode:

	Inform	mation	require	ments for heat pum	ps		
Model(s):VARO560R8		ssette: 8×V/	ARI71CST				
Outdoor side heat exch							
Indoor side heat exchai							
If the heater is equipped							
Driver of compressor: e	<u> </u>						
· · · · · · · · · · · · · · · · · · ·			eating seaso	n, parameters for the warmer and	colder hea	ating seaso	ons are
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	Prated,h	56.00	kW	Seasonal space heating energy efficiency	ηs,h	165.0	%
Declared heating teperature 20°C				Declared coefficient of pe efficiency/auxiliary energy outdoor ten	factor for	part load a	
Tj=-7°C	Pdh	27.42	kW	Tj=-7°C	COPd	2.64	
Tj=+2°C	Pdh	16.69	kW	Tj=+2°C	COPd	3.79	
Tj=+7°C	Pdh	10.73	kW	Tj=+7°C	COPd	6.41	
Tj=+12°C	Pdh	5.68	kW	Tj=+12°C	COPd	7.09	-
T _{biv} =bivalent temperature	Pdh	31.00	kW	T _{biv} =bivalent temperature	COPd	2.13	
ToL=operation temperature	Pdh	31.00	kW	ToL =operation temperature	COPd	2.13	
Bivalent temperature	Tbiv	-10	°C				
Degradation co-efficient for heat pumps(**)	Cdh	0.25					
Power consumption in a	modes other	r than "activ	e mode"	Suppleme	ntary heat	er	
Off mode	Poff	0.005	kW	Back-up heating capacity(*)	elbu	0	kW
Thermosat-off mode	Рто	0.005	kW	Type of energy input			
Crankcase heater mode	Рск	0.005	kW	Standby mode	PsB	0.005	kW
		I	Othe	er items		l	
Capacity control		variable		For air-to-air heat pump: air flow rate, outdoor measured		22000	m³/h
Sound power level,outdoor	Lwa	89	dB				
GWP of the refrigerant		2088	kg CO _{2 eq} (100years)				
Contact details							
(*)							
(**)If Cdh is not determin	ned by meas	surement, th	en the default	t degradation coefficient of heat p	umps shal	l be 0.25.	
Where information relat	tes to multi-	split heat pu	mps, xthe tes	t result and performance data ma	y be obtai	ned on the	basis o

performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.

Cooling mode:

Info	ormatic	n requ	irement	s fo	r air-to-air cond	itione	rs	
Model(s):VARO615R8\ Test matching indoor ui	/ nits form, ca	assette:8×VA	ARI80CST					
Outdoor side heat exch	anger of air	conditioner	air					
Indoor side heat excha	nger of air c	onditioner: a	air					
Type: compressor drive	n							
Driver of compressor: e	electric moto	or						
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated cooling capacity	Prated,c	61.50	kW		easonal space cooling nergy efficiency	ηs,c	262.3	%
Declared cooling cap temperatures T _j an				D	eclared energy efficiency ra /auxiliary energy factor for temper			
Tj=+35°C	Pdc	61.50	kW	Tj	=+35°C	EERd	2.38	
Tj=+30°C	Pdc	45.32	kW	Tj	=+30°C	EERd	4.53	
Tj=+25°C	Pdc	29.13	kW	Tj	=+25°C	EERd	7.54	
T _j =+20°C	Pdc	12.95	kW	Tj	=+20°C	EERd	15.75	
Degradation co-efficient for air conditioners(*)	Cdc	0.25						
		Power consu	umption in mo	des ot	her than "active mode"			
Off mode	Poff	0.005	kW	С	rankcase heater mode	Рск	0.005	kW
Thermosat-off mode	Рто	0.005	kW	s	tandby mode	PsB	0.005	kW
			Othe	er item	S			
Capacity control		variable		a	or air-to-air air conditioner: ir flow rate, outdoor neasured	-	21500	m³/h
Sound power level, outdoor	Lwa	89	dB					
GWP of the refrigerant		2088	kg CO _{2 eq} (100years)					
Camback dataila								

Contact details

(*)If Cdc is not determined by measurement, then the default degradation coefficient of heat pumps shall be 0.25.

Heating mode:

	Infor	mation	requirer	nents for heat pum	ps		
Model(s):VARO615R8		accetto: 9×V	ADIOCST				
Test matching indoor u Outdoor side heat exch							
Indoor side heat exchar							
If the heater is equipped							
Driver of compressor: e	<u> </u>		Ticater. 110				
<u>.</u>			eating seasor	n, parameters for the warmer and	l colder hea	ating seaso	ons are
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	Prated,h	61.50	kW	Seasonal space heating energy efficiency	ηs,h	172.6	%
Declared heating teperature 20°C				Declared coefficient of pe efficiency/auxiliary energy outdoor ter	factor for	oart load a	
Tj=-7°C	Pdh	29.90	kW	Tj=-7°C	COPd	2.66	
Tj=+2°C	Pdh	18.20	kW	Tj=+2°C	COPd	4.07	
Tj=+7°C	Pdh	11.70	kW	Tj=+7°C	COPd	6.53	
Tj=+12°C	Pdh	6.75	kW	Tj=+12°C	COPd	7.41	
T _{biv} =bivalent temperature	Pdh	33.80	kW	T _{biv} =bivalent temperature	COPd	2.13	
ToL=operation temperature	Pdh	33.80	kW	ToL =operation temperature	COPd	2.13	
Bivalent temperature	Tbiv	-10	°C				
Degradation co-efficient for heat pumps(**)	Cdh	0.25					
Power consumption in r	modes othe	r than "activ	e mode"	Suppleme	ntary heate	er	
Off mode	Poff	0.005	kW	Back-up heating capacity(*)	elbu	0	kW
Thermosat-off mode	Рто	0.005	kW	Type of energy input			
Crankcase heater mode	Рск	0.005	kW	Standby mode	PsB	0.005	kW
		l	Othe	er items			
Capacity control		variable		For air-to-air heat pump: air flow rate, outdoor measured		21500	m³/h
Sound power level,outdoor	Lwa	89	dB				
GWP of the refrigerant		2088	kg CO _{2 eq} (100years)				
Contact details							
(*)							
(**)If Cdh is not determin	ned by meas	surement, th	en the default	degradation coefficient of heat p	umps shall	be 0.25.	
				result and performance data mar runit(s) recommended by the ma	,		

Cooling mode:

ormatic	n requ	irement	s i	for air-to-air cond	itione	rs	
/ nits form, ca	ssette:5×MI	H80Q4N18(Q	()+3	3×VARI80CST			
anger of air	conditioner	: air					
nger of air c	onditioner: a	nir					
n							
lectric moto	or						
Symbol	Value	Unit		Item	Symbol	Value	Unit
Prated,c	67.00	kW		Seasonal space cooling energy efficiency	ηs,c	242.4	%
				/auxiliary energy factor fo	r part load		
Pdc	67.00	kW		Tj=+35°C	EERd	2.14	
Pdc	49.37	kW		Tj=+30°C	EERd	4.21	
Pdc	31.74	kW		Tj=+25°C	EERd	6.98	
Pdc	14.11	kW		Tj=+20°C	EERd	14.80	
Cdc	0.25						
	Power consu	umption in mo	des	s other than "active mode"			
Poff	0.005	kW		Crankcase heater mode	Рск	0.005	kW
Рто	0.005	kW		Standby mode	PsB	0.005	kW
		Othe	er it	ems	•		•
	variable			For air-to-air air conditioner: air flow rate, outdoor measured		21500	m³/h
Lwa	92	dB					
	2088	kg CO _{2 eq} (100years)					
	nits form, call anger of air commerce of air c	nits form, cassette:5×MI anger of air conditioner: a en electric motor Symbol Value Prated,c 67.00 Pacity for part load at give d indoor 27/19°C (dry/v) Pdc 67.00 Pdc 49.37 Pdc 31.74 Pdc 14.11 Cdc 0.25 Power consumption of the conditioner: a variable Lwa 92	nits form, cassette:5×MIH80Q4N18(C) anger of air conditioner: air nger of air conditioner: air electric motor Symbol Value Unit Prated,c 67.00 kW Dacity for part load at given outdoor d indoor 27/19°C (dry/wet bulb) Pdc 67.00 kW Pdc 49.37 kW Pdc 31.74 kW Pdc 14.11 kW Cdc 0.25 Power consumption in motor of the control of th	nits form, cassette:5×MIH80Q4N18(Q)+3 anger of air conditioner: air nger o	Anits form, cassette:5×MIH80Q4N18(Q)+3×VARI80CST anger of air conditioner: air Inger of air conditioner: air flow rate, outdoor measured Inger of air conditioner: air flow rate, outdoor measured Inger of air conditioner: air flow rate, outdoor measured	Inits form, cassette:5×MIH80Q4N18(Q)+3×VARI80CST anger of air conditioner: air Inger of air conditioner: air flow rate, outdoor measured Inger of air conditioner: air Inger of air conditioner: air flow rate, outdoor measured Inger of air conditioner: air Inger of air conditioner: air flow rate, outdoor measured	nits form, cassette:5×MIH80Q4N18(Q)+3×VARI80CST anger of air conditioner: air nger of air

Contact details

(*)If Cdc is not determined by measurement, then the default degradation coefficient of heat pumps shall be 0.25.

Heating mode:

Information requirements for heat pumps

Model(s):VARO670R8V

Test matching indoor units form, cassette: 5×VARI80CST+3×VARI100CST

Outdoor side heat exchanger of air conditioner: air

Indoor side heat exchanger of air conditioner: air

If the heater is equipped with a supplementary heater: no

Driver of compressor: electric motor

Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are

орионаі.								
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated heating capacity	Prated,h	67.00	kW		Seasonal space heating energy efficiency	ηs,h	169.8	%
Declared heating teperature 20°C					Declared coefficient of pe efficiency/auxiliary energy outdoor ten	factor for	part load a	
Tj=-7°C	Pdh	32.60	kW		Tj=-7°C	COPd	2.56	
Tj=+2°C	Pdh	19.84	kW		Tj=+2°C	COPd	3.97	
Tj=+7°C	Pdh	12.76	kW		Tj=+7°C	COPd	6.53	
Tj=+12°C	Pdh	6.45	kW		Tj=+12°C	COPd	7.73	
T _{biv} =bivalent temperature	Pdh	36.85	kW		T _{biv} =bivalent temperature	COPd	2.05	
ToL=operation temperature	Pdh	36.85	kW		ToL =operation temperature	COPd	2.05	
Bivalent temperature	Tbiv	-10	°C					
Degradation co-efficient for heat pumps(**)	Cdh	0.25						
Power consumption in	modes other	r than "activ	e mode"		Suppleme	ntary heate	er	
Off mode	Poff	0.005	kW		Back-up heating capacity(*)	elbu	0	kW
Thermosat-off mode	Рто	0.005	kW		Type of energy input			•
Crankcase heater mode	Рск	0.005	kW		Standby mode	PsB	0.005	kW
			Othe	er it	ems			•
Capacity control		variable			For air-to-air heat pump: air flow rate, outdoor measured		21500	m³/h
Sound power level,outdoor	Lwa	92	dB					
GWP of the refrigerant		2088	kg CO _{2 eq} (100years)					
Contact details								

(*)

^(**)If Cdh is not determined by measurement, then the default degradation coefficient of heat pumps shall be 0.25.

Cooling mode:

Info	ormatic	n requ	irement	s 1	for air-to-air cond	litione	rs	
Model(s):VARO730R8\ Test matching indoor ur		ssette::2×V	ARI80CST+6	×VA	ARI100CST			
Outdoor side heat exch	anger of air	conditioner	air					
Indoor side heat exchar	nger of air c	onditioner: a	air					
Type: compressor drive	en							
Driver of compressor: e	lectric moto	or						
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated cooling capacity	Prated,c	73.00	kW		Seasonal space cooling energy efficiency	ηs,c	224.7	%
Declared cooling cap temperatures T _j an					Declared energy efficiency ra /auxiliary energy factor fo temper			
Tj=+35°C	Pdc	73.00	kW		Tj=+35°C	EERd	2.06	
Tj=+30°C	Pdc	53.79	kW		Tj=+30°C	EERd	3.60	
Tj=+25°C	Pdc	34.58	kW		Tj=+25°C	EERd	6.84	
Tj=+20°C	Pdc	15.37	kW		T _j =+20°C	EERd	13.74	
Degradation co-efficient for air conditioners(*)	Cdc	0.25						
		Power consu	umption in mo	des	s other than "active mode"			
Off mode	Poff	0.005	kW		Crankcase heater mode	Рск	0.005	kW
Thermosat-off mode	Рто	0.005	kW		Standby mode	PsB	0.005	kW
		•	Othe	er it	ems	•		
Capacity control		variable			For air-to-air air conditioner: air flow rate, outdoor measured		29000	m³/h
Sound power level, outdoor	Lwa	93	dB					
GWP of the refrigerant		2088	kg CO _{2 eq} (100years)					

Contact details

(*)If C_{dc} is not determined by measurement, then the default degradation coefficient of heat pumps shall be 0.25.

Heating mode:

Information requirements for heat pumps Model(s):VARO730R8V Test matching indoor units form, cassette:2×VARI80CST+6×VARI100CST Outdoor side heat exchanger of air conditioner: air Indoor side heat exchanger of air conditioner: air If the heater is equipped with a supplementary heater: no Driver of compressor: electric motor Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional. Symbol Value Unit Symbol Unit Item Item Value Seasonal space heating 73.00 kW 167.8 % Rated heating capacity Prated,h $\eta_{s,h}$ energy efficiency Declared coefficient of performance or gas utilisation Declared heating capacity for part load at indoor efficiency/auxiliary energy factor for part load at given teperature 20°C and outdoor temperatures Tj outdoor temperatures Ti Tj=-7°C Pdh 38.04 kW Tj=-7°C COPd 2.31 T_i=+2°C Tj=+2°C Pdh 23.15 kW COPd 3.89 Tj=+7°C Tj=+7°C 14.88 kW COPd 6.99 PdhTj=+12°C Pdh 8.23 kW Tj=+12°C COPd 8.99 T_{biv}=bivalent Pdh 43.00 kW Tbiv =bivalent temperature 1.78 COPd temperature Tot=operation Pdh 43.00 kW Tol =operation temperature COPd 1.78 temperature °C Bivalent temperature Tbiv -10 Degradation co-efficient for Cdh 0.25 heat pumps(**) Power consumption in modes other than "active mode" Supplementary heater Back-up heating capacity(*) Off mode Poff 0.005 kW elbu 0 kW Type of energy input Thermosat-off mode Рто 0.005 kW Standby mode Crankcase heater mode 0.005 kW kW PsB Рск 0.005 Other items For air-to-air heat pump: air Capacity control variable 29000 m³/h flow rate, outdoor measured Sound power Lwa 93 dB level,outdoor kg CO₂ eq GWP of the refrigerant 2088 (100years) Contact details (**)If Cdn is not determined by measurement, then the default degradation coefficient of heat pumps shall be 0.25.

Cooling mode:

Info	ormatic	n requ	irements	for air-to-air con	ditione	rs	
Model(s):VARO785R8\ Test matching indoor ur		ssette:8×VA	ARI100CST				
Outdoor side heat exch	anger of air	conditioner	: air				
Indoor side heat exchar	nger of air c	onditioner: a	air				
Type: compressor drive	n						
Driver of compressor: e	lectric moto	or					
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	Prated,c	78.50	kW	Seasonal space cooling energy efficiency	ηs,c	237.8	%
Declared cooling cap temperatures T _j and				Declared energy efficiency /auxiliary energy factor temp			
Tj=+35°C	Pdc	78.50	kW	Tj=+35°C	EERd	2.42	
Tj=+30°C	Pdc	57.84	kW	Tj=+30°C	EERd	3.88	
Tj=+25°C	Pdc	37.18	kW	Tj=+25°C	EERd	7.02	
Tj=+20°C	Pdc	16.53	kW	Tj=+20°C	EERd	13.54	
Degradation co-efficient for air conditioners(*)	Cdc	0.25					
		Power consu	umption in mod	des other than "active mode"			
Off mode	Poff	0.005	kW	Crankcase heater mode	Рск	0.005	kW
Thermosat-off mode	Рто	0.005	kW	Standby mode	PsB	0.005	kW
			Othe	r items			
Capacity control		variable		For air-to-air air conditioner air flow rate, outdoor measured	T:	28000	m³/h
Sound power level, outdoor	Lwa	93	dB		•		
GWP of the refrigerant		2088	kg CO _{2 eq} (100years)				

Contact details

(*)If Cdc is not determined by measurement, then the default degradation coefficient of heat pumps shall be 0.25.

Heating mode:

	Infor	mation	requiren	nents for heat pum	ps		
Model(s):VARO785R8		assette: 8×V	ARI100CST				
Outdoor side heat exch	anger of air	conditioner	air				
Indoor side heat exchar	nger of air c	onditioner: a	nir				
If the heater is equipped	d with a sup	plementary	heater: no				
Driver of compressor: e	lectric moto	r					
Parameters shall be de optional.	clared for th	ie average h	eating season	, parameters for the warmer and	colder hea	ating seaso	ons are
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	Prated,h	78.50	kW	Seasonal space heating energy efficiency	ηs,h	168.2	%
Declared heating teperature 20°C				Declared coefficient of pe efficiency/auxiliary energy outdoor ten	factor for	part load a	
Tj=-7°C	Pdh	38.04	kW	Tj=-7°C	COPd	2.38	
Tj=+2°C	Pdh	23.15	kW	Tj=+2°C	COPd	3.90	
Tj=+7°C	Pdh	14.88	kW	Tj=+7°C	COPd	6.82	
Tj=+12°C	Pdh	8.27	kW	Tj=+12°C	COPd	8.77	
T _{biv} =bivalent temperature	Pdh	43.00	kW	T _{biv} =bivalent temperature	COPd	1.97	
ToL=operation temperature	Pdh	43.00	kW	ToL =operation temperature	COPd	1.97	
Bivalent temperature	Tbiv	-10	°C				
Degradation co-efficient for heat pumps(**)	Cdh	0.25					
Power consumption in r	modes othe	r than "activ	e mode"	Suppleme	ntary heate	er	
Off mode	Poff	0.005	kW	Back-up heating capacity(*)	elbu	0	kW
Thermosat-off mode	Рто	0.005	kW	Type of energy input			•
Crankcase heater mode	Рск	0.005	kW	Standby mode	PsB	0.005	kW
			Othe	r items			•
Capacity control		variable		For air-to-air heat pump: air flow rate, outdoor measured		28000	m³/h
Sound power level,outdoor	Lwa	93	dB				
GWP of the refrigerant		2088	kg CO _{2 eq} (100years)				
Contact details							
(*)							
(**)If Cdh is not determin	ned by meas	surement, th	en the default	degradation coefficient of heat p	umps shall	be 0.25.	
				result and performance data ma unit(s) recommended by the ma			

Cooling mode:

Info	ormatic	n requ	irement	s 1	for air-to-air cond	litione	rs	
Model(s):VARO850R8\ Test matching indoor ur		ssette: 6×V/	ARI100CST+2	2×V	/ARI140CST			
Outdoor side heat exch	anger of air	conditioner	air					
Indoor side heat exchar	nger of air c	onditioner: a	nir					
Type: compressor drive	n							
Driver of compressor: e	lectric moto	or						
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated cooling capacity	Prated,c	85.00	kW		Seasonal space cooling energy efficiency	ηs,c	234.1	%
Declared cooling cap temperatures T _j and					Declared energy efficiency ra /auxiliary energy factor fo temper			
Tj=+35°C	Pdc	85.00	kW		Tj=+35°C	EERd	2.25	
Tj=+30°C	Pdc	62.63	kW		Tj=+30°C	EERd	3.79	
Tj=+25°C	Pdc	40.26	kW		Tj=+25°C	EERd	7.01	
Tj=+20°C	Pdc	17.89	kW		T _j =+20°C	EERd	13.76	
Degradation co-efficient for air conditioners(*)	Cdc	0.25						
	!	Power consu	umption in mo	des	s other than "active mode"			
Off mode	Poff	0.005	kW		Crankcase heater mode	Рск	0.005	kW
Thermosat-off mode	Рто	0.005	kW		Standby mode	PsB	0.005	kW
		'	Othe	er it	ems		•	
Capacity control		variable			For air-to-air air conditioner: air flow rate, outdoor measured		28000	m³/h
Sound power level, outdoor	Lwa	93	dB			•	•	
GWP of the refrigerant		2088	kg CO _{2 eq} (100years)					

Contact details

(*)If Cdc is not determined by measurement, then the default degradation coefficient of heat pumps shall be 0.25.

Heating mode:

	Infor	mation	requiren	nents for heat pum	ps		
Model(s):VARO850R8' Test matching indoor u		assette: 6×V	'ARI100CST+2	×VARI140CST			
Outdoor side heat exch	anger of air	conditioner	: air				
Indoor side heat exchar	nger of air c	onditioner: a	air				
If the heater is equipped	d with a sup	plementary	heater: no				
Driver of compressor: e	lectric moto	r					
Parameters shall be de optional.	clared for th	e average h	neating season	, parameters for the warmer and	colder hea	ating seaso	ons are
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	Prated,h	85.00	kW	Seasonal space heating energy efficiency	ηs,h	165.0	%
Declared heating teperature 20°C			l l	Declared coefficient of pe efficiency/auxiliary energy outdoor ten	factor for	oart load a	
Tj=-7°C	Pdh	39.81	kW	Tj=-7°C	COPd	2.45	
Tj=+2°C	Pdh	24.23	kW	Tj=+2°C	COPd	3.74	
Tj=+7°C	Pdh	15.58	kW	Tj=+7°C	COPd	6.77	
Tj=+12°C	Pdh	8.32	kW	Tj=+12°C	COPd	8.70	
T _{biv} =bivalent temperature	Pdh	45.00	kW	T _{biv} =bivalent temperature	COPd	1.90	
ToL=operation temperature	Pdh	45.00	kW	ToL =operation temperature	COPd	1.90	
Bivalent temperature	Tbiv	-10	°C				
Degradation co-efficient for heat pumps(**)	Cdh	0.25					
Power consumption in r	modes othe	r than "activ	e mode"	Suppleme	ntary heate	er	
Off mode	Poff	0.005	kW	Back-up heating capacity(*)	elbu	0	kW
Thermosat-off mode	Рто	0.005	kW	Type of energy input			
Crankcase heater mode	Рск	0.005	kW	Standby mode	PsB	0.005	kW
			Other	items			
Capacity control		variable		For air-to-air heat pump: air flow rate, outdoor measured		28000	m³/h
Sound power level,outdoor	Lwa	93	dB				
GWP of the refrigerant		2088	kg CO _{2 eq} (100years)				
Contact details							
(*)							
(**)If Cdh is not determin	ed by meas	surement, th	en the default	degradation coefficient of heat p	umps shall	be 0.25.	
				result and performance data ma unit(s) recommended by the ma			

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Cooling mode:

Info	ormatic	n requ	irement	S	for air-to-air cond	itione	rs	
Model(s):VARO900R8\ Test matching indoor u		assette: 5×V	ARI100CST+	3×\	/ARI140CST			
Outdoor side heat exch	anger of air	conditioner	air					
Indoor side heat excha	nger of air c	onditioner: a	nir					
Type: compressor drive	en							
Driver of compressor: e	electric moto	or						
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated cooling capacity	Prated,c	90.00	kW		Seasonal space cooling energy efficiency	ηs,c	228.1	%
Declared cooling ca temperatures T _j an					Declared energy efficiency ra /auxiliary energy factor fo temper			
Tj=+35°C	Pdc	90.00	kW		Tj=+35°C	EERd	2.05	
Tj=+30°C	Pdc	66.32	kW		Tj=+30°C	EERd	3.72	
Tj=+25°C	Pdc	42.63	kW		Tj=+25°C	EERd	6.98	
Tj=+20°C	Pdc	18.95	kW		Tj=+20°C	EERd	13.55	
Degradation co-efficient for air conditioners(*)	Cdc	0.25						
		Power consu	umption in mo	des	s other than "active mode"			
Off mode	Poff	0.005	kW		Crankcase heater mode	Рск	0.005	kW
Thermosat-off mode	Рто	0.005	kW		Standby mode	PsB	0.005	kW
			Othe	er it	ems			
Capacity control		variable			For air-to-air air conditioner: air flow rate, outdoor measured		28000	m³/h
Sound power level, outdoor	Lwa	93	dB					
GWP of the refrigerant		2088	kg CO _{2 eq} (100years)					
Contact details								

Contact details

(*)If Cdc is not determined by measurement, then the default degradation coefficient of heat pumps shall be 0.25.

Heating mode:

	Infor	mation	require	me	ents for heat pum	ps		
Model(s):VARO900R8' Test matching indoor u		assette:5×V	ARI100CST+:	3×V/	ARI140CST			
Outdoor side heat exch	anger of air	conditioner	air					
Indoor side heat exchar	nger of air c	onditioner: a	nir					
If the heater is equipped	d with a sup	plementary	heater: no					
Driver of compressor: e	lectric moto	r						
Parameters shall be de optional.	clared for th	ne average h	eating seaso	n, pa	arameters for the warmer and	colder hea	ating seaso	ons are
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated heating capacity	Prated,h	90.00	kW		Seasonal space heating energy efficiency	ηs,h	165.0	%
Declared heating teperature 20°C					Declared coefficient of per efficiency/auxiliary energy outdoor ten	factor for p	oart load a	
Tj=-7°C	Pdh	39.81	kW		Tj=-7°C	COPd	2.41	
Tj=+2°C	Pdh	24.23	kW		Tj=+2°C	COPd	3.75	
Tj=+7°C	Pdh	15.58	kW		Tj=+7°C	COPd	6.84	
Tj=+12°C	Pdh	8.22	kW		Tj=+12°C	COPd	8.79	
T _{biv} =bivalent temperature	Pdh	45.00	kW		T _{biv} =bivalent temperature	COPd	1.86	
ToL=operation temperature	Pdh	45.00	kW		ToL =operation temperature	COPd	1.86	
Bivalent temperature	Tbiv	-10	°C					
Degradation co-efficient for heat pumps(**)	Cdh	0.25						
Power consumption in r	modes othe	r than "activ	e mode"		Suppleme	ntary heate	er	
Off mode	Poff	0.005	kW		Back-up heating capacity(*)	elbu	0	kW
Thermosat-off mode	Рто	0.005	kW		Type of energy input			
Crankcase heater mode	Рск	0.005	kW		Standby mode	PsB	0.005	kW
		•	Othe	er ite	ems			
Capacity control		variable			For air-to-air heat pump: air flow rate, outdoor measured		28000	m³/h
Sound power level,outdoor	Lwa	93	dB					
GWP of the refrigerant		2088	kg CO _{2 eq} (100years)					
Contact details								
(*)								
(**)If Cdh is not determin	ned by meas	surement, th	en the defaul	t deg	gradation coefficient of heat p	umps shall	be 0.25.	
					sult and performance data ma it(s) recommended by the ma			

2 FOR JR8V INDIVIDUAL SERIES

8HP

Cooling mode:

Info	ormatic	n requ	irement	s 1	for air-to-air cond	litione	rs	
Model(s):VARO252R8\ Test matching indoor u		assette: 1×V	ARI45CSTC+	3×\	/ARI71CST			
Outdoor side heat exch	anger of air	conditioner	: air					
Indoor side heat excha	nger of air c	onditioner: a	air					
Type: compressor drive	en							
Driver of compressor: e	lectric moto	or						
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated cooling capacity	Prated,c	25.20	kW		Seasonal space cooling energy efficiency	ηs,c	290.3	%
Declared cooling capacity for part load at given outdoor temperatures T _j and indoor 27/19°C (dry/wet bulb)					Declared energy efficiency ra /auxiliary energy factor fo temper			
Tj=+35°C	Pdc	25.20	kW		Tj=+35°C	EERd	3.21	
Tj=+30°C	Pdc	18.57	kW		Tj=+30°C	EERd	4.96	
Tj=+25°C	Pdc	11.94	kW		Tj=+25°C	EERd	8.35	
Tj=+20°C	Pdc	7.83	kW		Tj=+20°C	EERd	16.60	
Degradation co-efficient for air conditioners(*)	Cdc	0.25						
		Power consi	umption in mo	des	other than "active mode"			
Off mode	Poff	0.005	kW		Crankcase heater mode	Рск	0.005	kW
Thermosat-off mode	Рто	0.005	kW		Standby mode	PsB	0.005	kW
		1	Othe	er ite	ems			•
Capacity control		variable			For air-to-air air conditioner: air flow rate, outdoor measured		12600	m³/h
Sound power level, outdoor	Lwa	83	dB					
GWP of the refrigerant		2088	kg CO _{2 eq} (100years)					
Contact details								

Contact details

(*)If Cdc is not determined by measurement, then the default degradation coefficient of heat pumps shall be 0.25.

Heating mode:

	Infor	mation	requirer	nents for heat pum	ps				
Model(s):VARO252R8 Test matching indoor u		assette: 1×V	ARI45CSTC+	3×VARI71CST					
Outdoor side heat exch				· · · · · · · · · · · · · · · · · · ·					
Indoor side heat exchai	nger of air c	onditioner: a	ir						
If the heater is equippe	d with a sup	plementary	heater: no						
Driver of compressor: e	electric moto	r							
Parameters shall be de optional.	clared for th	e average h	eating seasor	n, parameters for the warmer and	colder hea	ating seaso	ons are		
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit		
Rated heating capacity	Prated,h	25.20	kW	Seasonal space heating energy efficiency	ηs,h	170.0	%		
Declared heating capacity for part load at indoor teperature 20°C and outdoor temperatures T _j Declared coefficient of performance or gas utilisation efficiency/auxiliary energy factor for part load at give outdoor temperatures T _j									
Tj=-7°C	Pdh	12.12	kW	Tj=-7°C	COPd	2.68			
Tj=+2°C	Pdh	7.38	kW	Tj=+2°C	COPd	4.17			
Tj=+7°C	Pdh	5.57	kW	Tj=+7°C	COPd	6.11			
Tj=+12°C	Pdh	6.24	kW	Tj=+12°C	COPd	7.65			
T _{biv} =bivalent temperature	Pdh	13.70	kW	T _{biv} =bivalent temperature	COPd	2.26			
ToL=operation temperature	Pdh	13.70	kW	ToL =operation temperature	COPd	2.26			
Bivalent temperature	Tbiv	-10	°C						
Degradation co-efficient for heat pumps(**)	Cdh	0.25							
Power consumption in	modes othe	r than "activ	e mode"	Suppleme	ntary heate	ər			
Off mode	Poff	0.005	kW	Back-up heating capacity(*)	elbu	0	kW		
Thermosat-off mode	Рто	0.005	kW	Type of energy input		•	•		
Crankcase heater mode	Рск	0.005	kW	Standby mode	PsB	0.005	kW		
		•	Othe	r items	•	•	•		
Capacity control		variable		For air-to-air heat pump: air flow rate, outdoor measured		12600	m³/h		
Sound power level,outdoor	Lwa	83	dB						
GWP of the refrigerant		2088	kg CO _{2 eq} (100years)						
Contact details									
(*)									
(**)If Cdh is not determin	ned by meas	surement, th	en the default	degradation coefficient of heat p	umps shal	l be 0.25.			
				result and performance data ma unit(s) recommended by the ma					

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Cooling mode:

Info	ormatic	n requ	irement	S	for air-to-air cond	litione	rs	
Model(s):VARO280R8\		# 2\/	A DI74 CCT : 4:	\//	ADIOOCCT			
Test matching indoor u				× V <i>F</i>	ARIBUCST			
Outdoor side heat exch								
Indoor side heat excha	nger of air c	onditioner: a	air					
Type: compressor drive	en							
Driver of compressor: e	electric moto	or						
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated cooling capacity	Prated,c	28.00	kW		Seasonal space cooling energy efficiency	ηs,c	287.0	%
Declared cooling capacity for part load at given outdoor temperatures T _j and indoor 27/19°C (dry/wet bulb)					Declared energy efficiency ra /auxiliary energy factor fo temper			
Tj=+35°C	Pdc	28.00	kW		Tj=+35°C	EERd	3.20	
Tj=+30°C	Pdc	20.63	kW		Tj=+30°C	EERd	4.81	
Tj=+25°C	Pdc	13.26	kW		Tj=+25°C	EERd	8.15	
Tj=+20°C	Pdc	7.97	kW		Tj=+20°C	EERd	17.03	
Degradation co-efficient for air conditioners(*)	Cdc	0.25						
		Power consu	umption in mo	odes	s other than "active mode"			
Off mode	Poff	0.005	kW		Crankcase heater mode	Рск	0.005	kW
Thermosat-off mode	Рто	0.005	kW		Standby mode	Pss	0.005	kW
		•	Othe	er it	tems	•		
Capacity control		variable			For air-to-air air conditioner: air flow rate, outdoor measured		12600	m³/h
Sound power level, outdoor	Lwa	84	dB					
GWP of the refrigerant		2088	kg CO _{2 eq} (100years)					
Contact details								

Contact details

(*)If Cdc is not determined by measurement, then the default degradation coefficient of heat pumps shall be 0.25.

Heating mode:

	Inform	mation	requiren	nents for heat pum	ps		
Model(s):VARO280R8							
Test matching indoor u	•			VARI80CST			
Outdoor side heat exch							
Indoor side heat exchar							
If the heater is equipped			heater: no				
Driver of compressor: e							
Parameters shall be de optional.	clared for th	e average h	eating season,	parameters for the warmer and	colder hea	ating seaso	ons are
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	Prated,h	28.00	kW	Seasonal space heating energy efficiency	ηs,h	167.7	%
Declared heating teperature 20°C				Declared coefficient of pe efficiency/auxiliary energy outdoor ten	factor for	part load a	
Tj=-7°C	Pdh	14.15	kW	Tj=-7°C	COPd	2.50	
Tj=+2°C	Pdh	8.62	kW	T _j =+2°C	COPd	4.07	
Tj=+7°C	Pdh	5.77	kW	Tj=+7°C	COPd	6.18	
Tj=+12°C	Pdh	6.45	kW	Tj=+12°C	COPd	7.73	
T _{biv} =bivalent temperature	Pdh	16.00	kW	T _{biv} =bivalent temperature	COPd	2.10	
ToL=operation temperature	Pdh	16.00	kW	ToL =operation temperature	COPd	2.10	
Bivalent temperature	Tbiv	-10	°C				
Degradation co-efficient for heat pumps(**)	Cdh	0.25					
Power consumption in I	modes other	r than "activ	e mode"	Suppleme	ntary heate	er	
Off mode	Poff	0.005	kW	Back-up heating capacity(*)	elbu	0	kW
Thermosat-off mode	Рто	0.005	kW	Type of energy input			
Crankcase heater mode	Рск	0.005	kW	Standby mode	PsB	0.005	kW
			Other	items			
Capacity control		variable		For air-to-air heat pump: air flow rate, outdoor measured	-	12600	m³/h
Sound power level,outdoor	Lwa	84	dB				
GWP of the refrigerant		2088	kg CO _{2 eq} (100years)				
Contact details							
(*)							
(**)If Cdh is not determin	ned by meas	surement, th	en the default	degradation coefficient of heat p	umps shall	be 0.25.	
				result and performance data ma unit(s) recommended by the ma	•		

Cooling mode:

Info	ormatic	n requ	irements	s 1	for air-to-air cond	itione	rs	
Model(s):VARO335R8\		#- 0.37	A DI 4500TO : 0	O\	/A DI74.00T			
Test matching indoor ur				3×∖	/ARI/1CST			
Outdoor side heat exch								
Indoor side heat exchar	nger of air c	onditioner: a	nir					
Type: compressor drive	n							
Driver of compressor: e	electric moto	or						
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated cooling capacity	Prated,c	33.50	kW		Seasonal space cooling energy efficiency	ηs,c	284.5	%
Declared cooling cap temperatures T _j an					Declared energy efficiency ra /auxiliary energy factor fo temper			
Tj=+35°C	Pdc	33.50	kW		Tj=+35°C	EERd	2.88	
Tj=+30°C	Pdc	24.68	kW		Tj=+30°C	EERd	4.84	
Tj=+25°C	Pdc	15.87	kW		Tj=+25°C	EERd	8.23	
Tj=+20°C	Pdc	8.87	kW		T _j =+20°C	EERd	16.68	
Degradation co-efficient for air conditioners(*)	Cdc	0.25						
	1	Power consu	umption in mo	des	other than "active mode"			
Off mode	Poff	0.005	kW		Crankcase heater mode	Рск	0.005	kW
Thermosat-off mode	Рто	0.005	kW		Standby mode	PsB	0.005	kW
		•	Othe	er ite	ems	•		
Capacity control		variable			For air-to-air air conditioner: air flow rate, outdoor measured		13500	m³/h
Sound power level, outdoor	Lwa	85	dB			•		
GWP of the refrigerant		2088	kg CO _{2 eq} (100years)					

Contact details

(*)If Cdc is not determined by measurement, then the default degradation coefficient of heat pumps shall be 0.25.

Heating mode:

	Inform	nation	requiren	nents for heat pum	ps		
Model(s):VARO335R8 Test matching indoor u		assette: 3×V	'ARI45CSTC+3	3×VARI71CST			
Outdoor side heat exch	anger of air	conditioner	: air				
Indoor side heat excha	nger of air c	onditioner: a	air				
If the heater is equippe	d with a sup	plementary	heater: no				
Driver of compressor: e	lectric moto	r					
Parameters shall be de optional.	clared for th	e average h	neating season,	, parameters for the warmer and	colder hea	ating seaso	ons are
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	Prated,h	33.50	kW	Seasonal space heating energy efficiency	ηs,h	168.5	%
Declared heating teperature 20°C				Declared coefficient of pe efficiency/auxiliary energy outdoor ten	factor for	oart load a	
Tj=-7°C	Pdh	16.28	kW	Tj=-7°C	COPd	2.50	1
Tj=+2°C	Pdh	9.91	kW	Tj=+2°C	COPd	3.97	
Tj=+7°C	Pdh	6.37	kW	Tj=+7°C	COPd	6.50	
Tj=+12°C	Pdh	6.44	kW	Tj=+12°C	COPd	8.30	
T _{biv} =bivalent temperature	Pdh	18.40	kW	T _{biv} =bivalent temperature	COPd	2.18	-
ToL=operation temperature	Pdh	18.40	kW	ToL =operation temperature	COPd	2.18	
Bivalent temperature	Tbiv	-10	°C				
Degradation co-efficient for heat pumps(**)	Cdh	0.25					
Power consumption in I	modes other	than "activ	e mode"	Suppleme	ntary heate	er	
Off mode	Poff	0.005	kW	Back-up heating capacity(*)	elbu	0	kW
Thermosat-off mode	Рто	0.005	kW	Type of energy input			
Crankcase heater mode	Рск	0.005	kW	Standby mode	PsB	0.005	kW
			Other	items			
Capacity control		variable		For air-to-air heat pump: air flow rate, outdoor measured		13500	m³/h
Sound power level,outdoor	Lwa	85	dB				
GWP of the refrigerant		2088	kg CO _{2 eq} (100years)				
Contact details							
(*)							
(**)If Cdh is not determin	ned by meas	urement, th	en the default	degradation coefficient of heat p	umps shall	be 0.25.	
				result and performance data ma unit(s) recommended by the ma			

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Cooling mode:

Info	ormatic	n requ	irement	S	for air-to-air cond	litione	rs	
Model(s):VARO400R8\			A DI 4500TO :	4	/A DI0000T			
Test matching indoor ur				4×۱	VARI80CS I			
Outdoor side heat exch								
Indoor side heat exchai	nger of air c	onditioner: a	air					
Type: compressor drive	n							
Driver of compressor: e	lectric moto	r						
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated cooling capacity	Prated,c	40.00	kW		Seasonal space cooling energy efficiency	ηs,c	288.1	%
Declared cooling cap temperatures T _j an					Declared energy efficiency ra /auxiliary energy factor fo temper			
Tj=+35°C	Pdc	40.00	kW		Tj=+35°C	EERd	2.85	
Tj=+30°C	Pdc	29.47	kW		Tj=+30°C	EERd	4.78	
Tj=+25°C	Pdc	18.95	kW		Tj=+25°C	EERd	8.25	
T _j =+20°C	Pdc	8.42	kW		Tj=+20°C	EERd	17.63	
Degradation co-efficient for air conditioners(*)	Cdc	0.25						
		Power consu	umption in mo	de	s other than "active mode"		•	•
Off mode	Poff	0.005	kW		Crankcase heater mode	Рск	0.005	kW
Thermosat-off mode	Рто	0.005	kW		Standby mode	PsB	0.005	kW
			Othe	er it	tems			ı
Capacity control		variable			For air-to-air air conditioner: air flow rate, outdoor measured		15600	m³/h
Sound power level, outdoor	Lwa	86	dB					
GWP of the refrigerant		2088	kg CO _{2 eq} (100years)					
Contact details			41		gradation coefficient of heat n		h - 0.05	

(*)If Cdc is not determined by measurement, then the default degradation coefficient of heat pumps shall be 0.25.

Heating mode:

Information requirements for heat pumps

Model(s):VARO400R8V

Test matching indoor units form, cassette: 2×VARI45CSTC+4×VARI80CST

Outdoor side heat exchanger of air conditioner: air

Indoor side heat exchanger of air conditioner: air

If the heater is equipped with a supplementary heater: no

Driver of compressor: electric motor

Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.

-									
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit		
Rated heating capacity	Prated,h	40.00	kW	Seasonal space heating energy efficiency	Ŋs,h	171.8	%		
Declared heating teperature 20°C				efficiency/auxiliary energy	Declared coefficient of performance or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures T _j				
Tj=-7°C	Pdh	19.46	kW	Tj=-7°C	COPd	2.58			
Tj=+2°C	Pdh	11.85	kW	Tj=+2°C	COPd	4.11			
Tj=+7°C	Pdh	7.62	kW	Tj=+7°C	COPd	6.43			
Tj=+12°C	Pdh	7.79	kW	Tj=+12°C	COPd	8.16			
T _{biv} =bivalent temperature	Pdh	22.00	kW	T _{biv} =bivalent temperature	COPd	2.16			
ToL=operation temperature	Pdh	22.00	kW	ToL =operation temperature	COPd	2.16			
Bivalent temperature	Tbiv	-10	°C						
Degradation co-efficient for heat pumps(**)	Cdh	0.25							
Power consumption in	modes othe	r than "activ	e mode"	Supplementary heater					
Off mode	Poff	0.005	kW	Back-up heating capacity(*)	elbu	0	kW		
Thermosat-off mode	Рто	0.005	kW	Type of energy input		•			
Crankcase heater mode	Рск	0.005	kW	Standby mode	PsB	0.005	kW		
			Othe	r items		•	•		
Capacity control		variable		For air-to-air heat pump: air flow rate, outdoor measured		15600	m³/h		
Sound power level,outdoor	Lwa	86	dB						
GWP of the refrigerant		2088	kg CO _{2 eq} (100years)						
Contact details				<u> </u>					

Contact details

(*)

(**)If Cdh is not determined by measurement, then the default degradation coefficient of heat pumps shall be 0.25.

Cooling mode:

Info	rmatic	n requ	irements	s fo	r air-to-air cond	itione	rs	
Model(s):VARO450R8V Test matching indoor ur		ssette: 1×V	ARI71CST+5×	«VARI	80CST			
Outdoor side heat exch	anger of air	conditioner	air					
Indoor side heat exchar	nger of air c	onditioner: a	air					
Type: compressor drive	n							
Driver of compressor: e	lectric moto	or						
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated cooling capacity	Prated,c	45.00	kW		easonal space cooling nergy efficiency	ηs,c	270.1	%
Declared cooling cap temperatures T _j and				D	eclared energy efficiency ra /auxiliary energy factor for temper			
Tj=+35°C	Pdc	45.00	kW	Tj	=+35°C	EERd	2.45	
Tj=+30°C	Pdc	33.16	kW	Tj	=+30°C	EERd	4.38	
Tj=+25°C	Pdc	21.32	kW	Tj	=+25°C	EERd	7.93	
Tj=+20°C	Pdc	9.47	kW	Tj	=+20°C	EERd	17.87	
Degradation co-efficient for air conditioners(*)	Cdc	0.25						
		Power consu	umption in mo	des ot	her than "active mode"			
Off mode	Poff	0.005	kW	С	rankcase heater mode	Рск	0.005	kW
Thermosat-off mode	Рто	0.005	kW	S	tandby mode	PsB	0.005	kW
		•	Othe	er item	s			
Capacity control		variable		а	or air-to-air air conditioner: ir flow rate, outdoor neasured		15600	m³/h
Sound power level, outdoor	Lwa	86	dB					
GWP of the refrigerant		2088	kg CO _{2 eq} (100years)					

Contact details

 $(^{\star}) \text{If } C_{\text{dc}} \text{ is not determined by measurement, then the default degradation coefficient of heat pumps shall be 0.25}.$

Heating mode:

Information requirements for heat pumps

Model(s):VARO450R8V

Test matching indoor units form, cassette: 1×VARI71CST+5×VARI80CST

Outdoor side heat exchanger of air conditioner: air

Indoor side heat exchanger of air conditioner: air

If the heater is equipped with a supplementary heater: no

Driver of compressor: electric motor

Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are

ориона.								
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated heating capacity	Prated,h	45.00	kW		Seasonal space heating energy efficiency	ηs,h	167.7	%
Declared heating teperature 20°C					Declared coefficient of pe efficiency/auxiliary energy outdoor ten	factor for	oart load a	
Tj=-7°C	Pdh	21.89	kW		Tj=-7°C	COPd	2.47	
Tj=+2°C	Pdh	13.33	kW		Tj=+2°C	COPd	4.00	
Tj=+7°C	Pdh	8.57	kW		Tj=+7°C	COPd	6.36	
Tj=+12°C	Pdh	8.01	kW		Tj=+12°C	COPd	8.18	
T _{biv} =bivalent temperature	Pdh	24.75	kW		T _{biv} =bivalent temperature	COPd	2.06	
ToL=operation temperature	Pdh	24.75	kW		ToL =operation temperature	COPd	2.06	
Bivalent temperature	Tbiv	-10	°C					
Degradation co-efficient for heat pumps(**)	Cdh	0.25						
Power consumption in	modes othe	r than "activ	e mode"		Suppleme	ntary heate	er	
Off mode	Poff	0.005	kW		Back-up heating capacity(*)	elbu	0	kW
Thermosat-off mode	Рто	0.005	kW		Type of energy input			•
Crankcase heater mode	Рск	0.005	kW		Standby mode	PsB	0.005	kW
			Othe	er ite	ems			
Capacity control		variable			For air-to-air heat pump: air flow rate, outdoor measured		15600	m³/h
Sound power level,outdoor	Lwa	86	dB					
GWP of the refrigerant		2088	kg CO _{2 eq} (100years)					
Contact details								

^(**)If Cdh is not determined by measurement, then the default degradation coefficient of heat pumps shall be 0.25.

Cooling mode:

Info	ormatic	n requ	irements	s for air-to-air cor	ditione	rs	
Model(s):VARO500R8\ Test matching indoor ur		nssette:2×VA	ARI45CSTC+6	×VARI71CST			
Outdoor side heat exch	anger of air	conditioner	air				
Indoor side heat exchai	nger of air c	onditioner: a	air				
Type: compressor drive	en						
Driver of compressor: e	electric moto	or					
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	Prated,c	50.00	kW	Seasonal space cooling energy efficiency	ηs,c	278.2	%
Declared cooling cap temperatures T _j an				Declared energy efficienc /auxiliary energy factor tem			
Tj=+35°C	Pdc	50.00	kW	Tj=+35°C	EERd	2.76	
Tj=+30°C	Pdc	36.84	kW	Tj=+30°C	EERd	4.62	
Tj=+25°C	Pdc	23.68	kW	Tj=+25°C	EERd	8.08	
T _j =+20°C	Pdc	10.81	kW	Tj=+20°C	EERd	16.16	
Degradation co-efficient for air conditioners(*)	Cdc	0.25					
		Power consu	umption in mod	des other than "active mode"			
Off mode	Poff	0.005	kW	Crankcase heater mode	Рск	0.005	kW
Thermosat-off mode	Рто	0.005	kW	Standby mode	PsB	0.005	kW
		•	Othe	r items	•		
Capacity control		variable		For air-to-air air conditione air flow rate, outdoor measured	er:	22000	m³/h
Sound power level, outdoor	Lwa	88	dB		•		
GWP of the refrigerant		2088	kg CO _{2 eq} (100years)				

Contact details

(*)If Cdc is not determined by measurement, then the default degradation coefficient of heat pumps shall be 0.25.

Heating mode:

Information requirements for heat pumps Model(s):VARO500R8V Test matching indoor units form, cassette:2×VARI45CSTC+6×VARI71CST Outdoor side heat exchanger of air conditioner: air Indoor side heat exchanger of air conditioner: air If the heater is equipped with a supplementary heater: no Driver of compressor: electric motor Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional. Item Symbol Value Unit Item Symbol Value Unit Seasonal space heating Rated heating capacity Prated,h 50.00 kW $\eta_{\text{s},\text{h}}$ 167.0 % energy efficiency Declared coefficient of performance or gas utilisation Declared heating capacity for part load at indoor efficiency/auxiliary energy factor for part load at given teperature 20°C and outdoor temperatures Ti outdoor temperatures Ti T_i=-7°C T_i=-7°C COPd 2.55 Pdh24.33 T_i=+2°C Pdh 14.81 kW T_i=+2°C COPd 3.89 $T_i=+7^{\circ}C$ Pdh9.52 kW $T_i = +7^{\circ}C$ COPd 6.58 Tj=+12°C Tj=+12°C Pdh6.27 kW COP_d 7.30 Tbiv=bivalent Pdh kW 27.50 Tbiv =bivalent temperature 2.13 COPd temperature To_L=operation Pdh COPd 27.50 kW 2.13 Tol =operation temperature temperature Bivalent temperature -10 °C Tbiv Degradation co-efficient for 0.25 Cdhheat pumps(**) Power consumption in modes other than "active mode" Supplementary heater Back-up heating capacity(*) Poff 0.005 elbu 0 kW Type of energy input Thermosat-off mode Рто 0.005 kW Standby mode Crankcase heater mode Рск 0.005 kW PsB 0.005 kW Other items For air-to-air heat pump: air 22000 m³/h Capacity control variable flow rate, outdoor measured Sound power 88 dΒ Lwa level,outdoor kg CO2 eq GWP of the refrigerant 2088 (100years) Contact details (**)If Cdh is not determined by measurement, then the default degradation coefficient of heat pumps shall be 0.25. Where information relates to multi-split heat pumps, xthe test result and performance data may be obtained on the basis of

performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer

Cooling mode:

Info	ormatic	n requ	irement	S	for air-to-air cond	litione	rs	
Model(s):VARO560R8\ Test matching indoor ur		assette: 8×V	ARI71CST					
Outdoor side heat exch	anger of air	conditioner	air					
Indoor side heat exchar	nger of air c	onditioner: a	air					
Type: compressor drive	n							
Driver of compressor: e	lectric moto	or						
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated cooling capacity	Prated,c	56.00	kW		Seasonal space cooling energy efficiency	ηs,c	262.2	%
Declared cooling cap temperatures T _j and					Declared energy efficiency ra /auxiliary energy factor fo temper			
Tj=+35°C	Pdc	56.00	kW		Tj=+35°C	EERd	2.54	
Tj=+30°C	Pdc	41.26	kW		Tj=+30°C	EERd	4.37	
Tj=+25°C	Pdc	26.53	kW		Tj=+25°C	EERd	7.60	
Tj=+20°C	Pdc	11.79	kW		Tj=+20°C	EERd	15.60	
Degradation co-efficient for air conditioners(*)	Cdc	0.25						
		Power consu	umption in mo	des	s other than "active mode"			
Off mode	Poff	0.005	kW		Crankcase heater mode	Рск	0.005	kW
Thermosat-off mode	Рто	0.005	kW		Standby mode	PsB	0.005	kW
			Othe	er it	ems			
Capacity control		variable			For air-to-air air conditioner: air flow rate, outdoor measured		22000	m³/h
Sound power level, outdoor	Lwa	89	dB					
GWP of the refrigerant		2088	kg CO _{2 eq} (100years)					

Contact details

(*)If Cdc is not determined by measurement, then the default degradation coefficient of heat pumps shall be 0.25.

Heating mode:

	Infor	mation	requiren	nents for heat pum	ps		
Model(s):VARO560R8' Test matching indoor u		ssette: 8×V/	ARI71CST				
Outdoor side heat exch	anger of air	conditioner	air				
Indoor side heat exchar	nger of air c	onditioner: a	iir				
If the heater is equipped	d with a sup	plementary	heater: no				
Driver of compressor: e	lectric moto	or					
Parameters shall be de optional.	clared for th	ne average h	eating season	, parameters for the warmer and	colder hea	ating seaso	ns are
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	Prated,h	56.00	kW	Seasonal space heating energy efficiency	ηs,h	165.0	%
Declared heating teperature 20°C		•		Declared coefficient of pe efficiency/auxiliary energy outdoor ten	factor for p	part load a	
Tj=-7°C	Pdh	27.42	kW	Tj=-7°C	COPd	2.64	
Tj=+2°C	Pdh	16.69	kW	Tj=+2°C	COPd	3.79	
Tj=+7°C	Pdh	10.73	kW	Tj=+7°C	COPd	6.41	-
Tj=+12°C	Pdh	5.68	kW	Tj=+12°C	COPd	7.09	-
T _{biv} =bivalent temperature	Pdh	31.00	kW	T _{biv} =bivalent temperature	COPd	2.13	
ToL=operation temperature	Pdh	31.00	kW	ToL =operation temperature	COPd	2.13	1
Bivalent temperature	Tbiv	-10	°C				
Degradation co-efficient for heat pumps(**)	Cdh	0.25					
Power consumption in I	modes othe	r than "activ	e mode"	Suppleme	ntary heate	er	
Off mode	Poff	0.005	kW	Back-up heating capacity(*)	elbu	0	kW
Thermosat-off mode	Рто	0.005	kW	Type of energy input			
Crankcase heater mode	Рск	0.005	kW	Standby mode	PsB	0.005	kW
			Othe	ritems			
Capacity control		variable		For air-to-air heat pump: air flow rate, outdoor measured		22000	m³/h
Sound power level,outdoor	Lwa	89	dB				
GWP of the refrigerant		2088	kg CO _{2 eq} (100years)				
Contact details							
(*)							
(**)If Cdh is not determin	ned by meas	surement, th	en the default	degradation coefficient of heat p	umps shall	be 0.25.	
				result and performance data ma unit(s) recommended by the ma			

Cooling mode:

Info	ormatic	on requ	irement	s for air-to-air con	ditione	rs	
Model(s):VARO615R8\ Test matching indoor ui		assette:8×VA	ARI80CST				
Outdoor side heat exch	anger of air	conditioner	air				
Indoor side heat excha	nger of air c	onditioner: a	air				
Type: compressor drive	en						
Driver of compressor: e	electric moto	or					
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	Prated,c	61.50	kW	Seasonal space cooling energy efficiency	ηs,c	262.3	%
Declared cooling cap temperatures T _j an	pacity for pa d indoor 27	art load at giv /19°C(dry/v	ven outdoor vet bulb)	Declared energy efficiency /auxiliary energy factor temp			
Tj=+35°C	Pdc	61.50	kW	Tj=+35°C	EERd	2.38	
Tj=+30°C	Pdc	45.32	kW	Tj=+30°C	EERd	4.53	
Tj=+25°C	Pdc	29.13	kW	Tj=+25°C	EERd	7.54	
T _j =+20°C	Pdc	12.95	kW	Tj=+20°C	EERd	15.75	
Degradation co-efficient for air conditioners(*)	Cdc	0.25					
		Power consu	umption in mo	des other than "active mode"			
Off mode	Poff	0.005	kW	Crankcase heater mode	Рск	0.005	kW
Thermosat-off mode	Рто	0.005	kW	Standby mode	PsB	0.005	kW
			Othe	er items			•
Capacity control		variable		For air-to-air air conditione air flow rate, outdoor measured	r:	21500	m³/h
Sound power level, outdoor	Lwa	89	dB		•		
GWP of the refrigerant		2088	kg CO _{2 eq} (100years)				
0 1 1 1 1 1							

Contact details

^(*)If Cdc is not determined by measurement, then the default degradation coefficient of heat pumps shall be 0.25.

Heating mode:

	Infor	mation	requirer	ments for heat pum	ps		
Model(s):VARO615R8 Test matching indoor u		accette: 8xV	APIROCST				
Outdoor side heat exch							
Indoor side heat exchar							
If the heater is equippe							
Driver of compressor: e	<u> </u>	·	- Indutor: III				
· ·			eating seasor	n, parameters for the warmer and	colder hea	ating seaso	ons are
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	Prated,h	61.50	kW	Seasonal space heating energy efficiency	ηs,h	172.6	%
Declared heating teperature 20°C				Declared coefficient of pe efficiency/auxiliary energy outdoor ten	factor for	part load a	
Tj=-7°C	Pdh	29.90	kW	Tj=-7°C	COPd	2.66	
Tj=+2°C	Pdh	18.20	kW	Tj=+2°C	COPd	4.07	
Tj=+7°C	Pdh	11.70	kW	Tj=+7°C	COPd	6.53	
Tj=+12°C	Pdh	6.75	kW	Tj=+12°C	COPd	7.41	
Tbiv=bivalent temperature	Pdh	33.80	kW	T _{biv} =bivalent temperature	COPd	2.13	
ToL=operation temperature	Pdh	33.80	kW	ToL =operation temperature	COPd	2.13	
Bivalent temperature	Tbiv	-10	°C				
Degradation co-efficient for heat pumps(**)	Cdh	0.25					
Power consumption in	modes othe	r than "activ	e mode"	Suppleme	ntary heate	er	
Off mode	Poff	0.005	kW	Back-up heating capacity(*)	elbu	0	kW
Thermosat-off mode	Рто	0.005	kW	Type of energy input			
Crankcase heater mode	Рск	0.005	kW	Standby mode	PsB	0.005	kW
		I	Othe	er items			
Capacity control		variable		For air-to-air heat pump: air flow rate, outdoor measured		21500	m³/h
Sound power level,outdoor	Lwa	89	dB			1	
GWP of the refrigerant		2088	kg CO _{2 eq} (100years)				
Contact details							
(*)							
(**)If Cdh is not determin	ned by meas	surement, th	en the default	degradation coefficient of heat p	umps shall	be 0.25.	
				result and performance data ma unit(s) recommended by the ma			

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Cooling mode:

Info	ormatic	n requ	irement	s i	for air-to-air cond	itione	rs	
Model(s):VARO670R8\ Test matching indoor un		ssette:5×VA	ARI80CST+3×	VA	RI100CST			
Outdoor side heat exch	anger of air	conditioner	: air					
Indoor side heat excha	nger of air c	onditioner: a	nir					
Type: compressor drive	en							
Driver of compressor: e	electric moto	or						
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated cooling capacity	Prated,c	67.00	kW		Seasonal space cooling energy efficiency	ηs,c	242.4	%
Declared cooling ca temperatures T _j an					Declared energy efficiency ra /auxiliary energy factor fo temper			
Tj=+35°C	Pdc	67.00	kW		Tj=+35°C	EERd	2.14	
Tj=+30°C	Pdc	49.37	kW		Tj=+30°C	EERd	4.21	
Tj=+25°C	Pdc	31.74	kW		Tj=+25°C	EERd	6.98	
Tj=+20°C	Pdc	14.11	kW		Tj=+20°C	EERd	14.80	
Degradation co-efficient for air conditioners(*)	Cdc	0.25						
		Power consu	umption in mo	des	s other than "active mode"			
Off mode	Poff	0.005	kW		Crankcase heater mode	Рск	0.005	kW
Thermosat-off mode	Рто	0.005	kW		Standby mode	PsB	0.005	kW
			Othe	er it	ems			
Capacity control		variable			For air-to-air air conditioner: air flow rate, outdoor measured		21500	m³/h
Sound power level, outdoor	Lwa	92	dB					
GWP of the refrigerant		2088	kg CO _{2 eq} (100years)					
Camback dataila								

Contact details

(*)If Cdc is not determined by measurement, then the default degradation coefficient of heat pumps shall be 0.25.

Heating mode:

Information requirements for heat pumps

Model(s):VARO670R8V

Test matching indoor units form, cassette: 5×VARI80CST+3×VARI100CST

Outdoor side heat exchanger of air conditioner: air

Indoor side heat exchanger of air conditioner: air

If the heater is equipped with a supplementary heater: no

Driver of compressor: electric motor

Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are

Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated heating capacity	Prated,h	67.00	kW		Seasonal space heating energy efficiency	ηs,h	169.8	%
Declared heating teperature 20°C					Declared coefficient of pe efficiency/auxiliary energy outdoor ten	factor for	part load a	
Tj=-7°C	Pdh	32.60	kW		Tj=-7°C	COPd	2.56	
Tj=+2°C	Pdh	19.84	kW		Tj=+2°C	COPd	3.97	
Tj=+7°C	Pdh	12.76	kW		Tj=+7°C	COPd	6.53	
Tj=+12°C	Pdh	6.45	kW		Tj=+12°C	COPd	7.73	
T _{biv} =bivalent temperature	Pdh	36.85	kW		T _{biv} =bivalent temperature	COPd	2.05	
ToL=operation temperature	Pdh	36.85	kW		ToL =operation temperature	COPd	2.05	
Bivalent temperature	Tbiv	-10	°C					
		ı			Τ			
Degradation co-efficient for heat pumps(**)	Cdh	0.25						
Power consumption in	modes other	r than "activ	e mode"		Suppleme	ntary heate	er	
Off mode	Poff	0.005	kW		Back-up heating capacity(*)	elbu	0	kW
Thermosat-off mode	Рто	0.005	kW		Type of energy input			
Crankcase heater mode	Рск	0.005	kW		Standby mode	PsB	0.005	kW
			Othe	er it	ems	•		
Capacity control		variable			For air-to-air heat pump: air flow rate, outdoor measured		21500	m³/h
Sound power level,outdoor	Lwa	92	dB					
GWP of the refrigerant		2088	kg CO _{2 eq} (100years)					
Contact details								

^(**)If Cdh is not determined by measurement, then the default degradation coefficient of heat pumps shall be 0.25.

Cooling mode:

Info	ormatic	n requ	irement	s i	for air-to-air cond	litione	rs	
Model(s):VARO730R8\ Test matching indoor un		assette::2×V/	ARI80CST+6>	٠VÆ	ARI100CST			
Outdoor side heat exch	anger of air	conditioner	: air					
Indoor side heat exchar	nger of air c	onditioner: a	air					
Type: compressor drive	n							
Driver of compressor: e	lectric moto	or						
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated cooling capacity	Prated,c	73.00	kW		Seasonal space cooling energy efficiency	ηs,c	224.7	%
Declared cooling cap temperatures T _j and					Declared energy efficiency ra /auxiliary energy factor fo temper			
Tj=+35°C	Pdc	73.00	kW		Tj=+35°C	EERd	2.06	
Tj=+30°C	Pdc	53.79	kW		Tj=+30°C	EERd	3.60	
Tj=+25°C	Pdc	34.58	kW		Tj=+25°C	EERd	6.84	
Tj=+20°C	Pdc	15.37	kW		T _j =+20°C	EERd	13.74	
Degradation co-efficient for air conditioners(*)	Cdc	0.25						
	ļ	Power consu	umption in mo	des	s other than "active mode"			
Off mode	Poff	0.005	kW		Crankcase heater mode	Рск	0.005	kW
Thermosat-off mode	Рто	0.005	kW		Standby mode	PsB	0.005	kW
		•	Othe	er it	ems		•	•
Capacity control		variable			For air-to-air air conditioner: air flow rate, outdoor measured		29000	m³/h
Sound power level, outdoor	Lwa	93	dB					
GWP of the refrigerant		2088	kg CO _{2 eq} (100years)					

Contact details

(*)If C_{dc} is not determined by measurement, then the default degradation coefficient of heat pumps shall be 0.25.

Heating mode:

Information requirements for heat pumps Model(s):VARO730R8V Test matching indoor units form, cassette:2×VARI80CST+6×VARI100CST Outdoor side heat exchanger of air conditioner: air Indoor side heat exchanger of air conditioner: air If the heater is equipped with a supplementary heater: no Driver of compressor: electric motor Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional. Symbol Value Unit Symbol Unit Item Item Value Seasonal space heating 73.00 kW 167.8 % Rated heating capacity Prated,h $\eta_{s,h}$ energy efficiency Declared coefficient of performance or gas utilisation Declared heating capacity for part load at indoor efficiency/auxiliary energy factor for part load at given teperature 20°C and outdoor temperatures Tj outdoor temperatures Ti Tj=-7°C Pdh 38.04 kW Tj=-7°C COPd 2.31 T_i=+2°C Tj=+2°C Pdh 23.15 kW COPd 3.89 Tj=+7°C Tj=+7°C 14.88 kW COPd 6.99 PdhTj=+12°C Pdh 8.23 kW Tj=+12°C COPd 8.99 T_{biv}=bivalent Pdh 43.00 kW Tbiv =bivalent temperature 1.78 COPd temperature Tot=operation Pdh 43.00 kW Tol =operation temperature COPd 1.78 temperature °C Bivalent temperature Tbiv -10 Degradation co-efficient for Cdh 0.25 heat pumps(**) Power consumption in modes other than "active mode" Supplementary heater Back-up heating capacity(*) Off mode Poff 0.005 kW elbu 0 kW Type of energy input Thermosat-off mode Рто 0.005 kW Standby mode Crankcase heater mode 0.005 kW kW PsB Рск 0.005 Other items For air-to-air heat pump: air Capacity control variable 29000 m³/h flow rate, outdoor measured Sound power Lwa 93 dB level,outdoor kg CO₂ eq GWP of the refrigerant 2088 (100years) Contact details (**)If Cdn is not determined by measurement, then the default degradation coefficient of heat pumps shall be 0.25.

Cooling mode:

Info	ormatic	n requ	irement	s f	or air-to-air cond	itione	rs	
Model(s):VARO785R8\ Test matching indoor u		ssette:8×VA	ARI100CST					
Outdoor side heat exch	anger of air	conditioner	air					
Indoor side heat excha	nger of air c	onditioner: a	nir					
Type: compressor drive	en							
Driver of compressor: e	electric moto	r						
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated cooling capacity	Prated,c	78.50	kW		Seasonal space cooling energy efficiency	ηs,c	237.8	%
Declared cooling ca temperatures T _j an					Declared energy efficiency ra /auxiliary energy factor fo temper			
Tj=+35°C	Pdc	78.50	kW		Tj=+35°C	EERd	2.42	
Tj=+30°C	Pdc	57.84	kW		Tj=+30°C	EERd	3.88	
Tj=+25°C	Pdc	37.18	kW		Tj=+25°C	EERd	7.02	
T _j =+20°C	Pdc	16.53	kW		T _j =+20°C	EERd	13.54	
Degradation co-efficient for air conditioners(*)	Cdc	0.25						
	ļ	Power consu	umption in mo	des	other than "active mode"			
Off mode	Poff	0.005	kW		Crankcase heater mode	Рск	0.005	kW
Thermosat-off mode	Рто	0.005	kW		Standby mode	PsB	0.005	kW
	•	•	Othe	er ite	ems			
Capacity control		variable			For air-to-air air conditioner: air flow rate, outdoor measured		28000	m³/h
Sound power level, outdoor	Lwa	93	dB					
GWP of the refrigerant		2088	kg CO _{2 eq} (100years)					· ·

Contact details

(*)If Cdc is not determined by measurement, then the default degradation coefficient of heat pumps shall be 0.25.

Heating mode:

	Infor	mation	requiren	nents for heat pum	ps		
Model(s):VARO785R8		assette: 8×V	ARI100CST				
Outdoor side heat exch	anger of air	conditioner	: air				
Indoor side heat exchar	nger of air o	onditioner: a	air				
If the heater is equipped	d with a sup	plementary	heater: no				
Driver of compressor: e	lectric moto	r					
Parameters shall be de optional.	clared for th	ie average h	eating season	, parameters for the warmer and	colder hea	ating seaso	ons are
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	Prated,h	78.50	kW	Seasonal space heating energy efficiency	ηs,h	168.2	%
Declared heating teperature 20°C				Declared coefficient of pe efficiency/auxiliary energy outdoor ten	factor for	part load a	
Tj=-7°C	Pdh	38.04	kW	Tj=-7°C	COPd	2.38	
Tj=+2°C	Pdh	23.15	kW	Tj=+2°C	COPd	3.90	
Tj=+7°C	Pdh	14.88	kW	Tj=+7°C	COPd	6.82	
Tj=+12°C	Pdh	8.27	kW	Tj=+12°C	COPd	8.77	
T _{biv} =bivalent temperature	Pdh	43.00	kW	T _{biv} =bivalent temperature	COPd	1.97	
Tot=operation temperature	Pdh	43.00	kW	ToL =operation temperature	COPd	1.97	
Bivalent temperature	Tbiv	-10	°C				
Degradation co-efficient for heat pumps(**)	Cdh	0.25					
Power consumption in r	modes othe	r than "activ	e mode"	Suppleme	ntary heate	er	
Off mode	Poff	0.005	kW	Back-up heating capacity(*)	elbu	0	kW
Thermosat-off mode	Рто	0.005	kW	Type of energy input		•	
Crankcase heater mode	Рск	0.005	kW	Standby mode	PsB	0.005	kW
		•	Other	ritems	•	•	,
Capacity control		variable		For air-to-air heat pump: air flow rate, outdoor measured		28000	m³/h
Sound power level,outdoor	Lwa	93	dB				
GWP of the refrigerant		2088	kg CO _{2 eq} (100years)				
Contact details							
(*)							
(**)If Cdh is not determin	ned by meas	surement, th	en the default	degradation coefficient of heat p	umps shal	l be 0.25.	
				result and performance data ma unit(s) recommended by the ma			

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Cooling mode:

Info	ormatic	n requ	irement	s t	for air-to-air cond	itione	rs		
Model(s):VARO850R8\ Test matching indoor ur		ssette: 6×V/	ARI100CST+	 2×∖	/ARI140CST				
Outdoor side heat exch	anger of air	conditioner	air						
Indoor side heat exchai	nger of air c	onditioner: a	ir						
Type: compressor drive	n								
Driver of compressor: e	lectric moto	r							
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit	
Rated cooling capacity	Prated,c	85.00	kW		Seasonal space cooling energy efficiency	Ŋs,c	234.1	%	
Declared cooling capacity for part load at given outdoor temperatures T _j and indoor 27/19°C (dry/wet bulb)					Declared energy efficiency ratio or gas utilisation efficiency /auxiliary energy factor for part load at given outdoor temperatures Tj				
Tj=+35°C	Pdc	85.00	kW		Tj=+35°C	EERd	2.25		
Tj=+30°C	Pdc	62.63	kW		Tj=+30°C	EERd	3.79		
Tj=+25°C	Pdc	40.26	kW		Tj=+25°C	EERd	7.01		
T _j =+20°C	Pdc	17.89	kW		Tj=+20°C	EERd	13.76		
Degradation co-efficient for air conditioners(*)	Cdc	0.25							
	1	Power consu	umption in mo	des	s other than "active mode"				
Off mode	Poff	0.005	kW		Crankcase heater mode	Рск	0.005	kW	
Thermosat-off mode	Рто	0.005	kW		Standby mode	PsB	0.005	kW	
		•	Othe	er it	ems				
Capacity control	variable				For air-to-air air conditioner: air flow rate, outdoor measured		28000	m³/h	
Sound power level, outdoor	Lwa	93	dB						
GWP of the refrigerant		2088	kg CO _{2 eq} (100years)						

Contact details

(*)If Cdc is not determined by measurement, then the default degradation coefficient of heat pumps shall be 0.25.

Heating mode:

	Infor	mation	requiren	nents for heat pum	ps				
Model(s):VARO850R8 Test matching indoor u		assette: 6×V	'ARI100CST+2	2×VARI140CST					
Outdoor side heat exch									
Indoor side heat exchai	nger of air c	onditioner: a	nir						
If the heater is equipped	d with a sup	plementary	heater: no						
Driver of compressor: e	lectric moto	r							
Parameters shall be de optional.	clared for th	ie average h	eating season	, parameters for the warmer and	colder hea	ating seaso	ons are		
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit		
Rated heating capacity	Prated,h	85.00	kW	Seasonal space heating energy efficiency	ηs,h	165.0	%		
Declared heating teperature 20°C				Declared coefficient of performance or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures T _j					
Tj=-7°C	Pdh	39.81	kW	Tj=-7°C	COPd	2.45			
Tj=+2°C	Pdh	24.23	kW	Tj=+2°C	COPd	3.74			
Tj=+7°C	Pdh	15.58	kW	Tj=+7°C	COPd	6.77			
Tj=+12°C	Pdh	8.32	kW	Tj=+12°C	COPd	8.70			
T _{biv} =bivalent temperature	Pdh	45.00	kW	T _{biv} =bivalent temperature	COPd	1.90			
ToL=operation temperature	Pdh	45.00	kW	ToL =operation temperature	COPd	1.90			
Bivalent temperature	Tbiv	-10	°C						
Degradation co-efficient for heat pumps(**)	Cdh	0.25							
Power consumption in modes other than "active mode"			Supplementary heater						
Off mode	Poff	0.005	kW	Back-up heating capacity(*)	elbu	0	kW		
Thermosat-off mode	Рто	0.005	kW	Type of energy input					
Crankcase heater mode	Рск	0.005	kW	Standby mode	PsB	0.005	kW		
		•	Other	r items					
Capacity control	variable			For air-to-air heat pump: air flow rate, outdoor measured		28000	m³/h		
Sound power level,outdoor	Lwa	93	dB						
GWP of the refrigerant		2088	kg CO _{2 eq} (100years)						
Contact details									
(*)									
(**)If Cdh is not determin	ned by meas	surement, th	en the default	degradation coefficient of heat p	umps shall	be 0.25.			
				result and performance data ma unit(s) recommended by the ma					

Cooling mode:

Info	ormatic	n requ	irements	s f	or air-to-air cond	itione	rs		
Model(s):VARO900R8\ Test matching indoor u		ssette: 5×V	ARI100CST+3	3×V	ARI140CST				
Outdoor side heat exch	anger of air	conditioner	air						
Indoor side heat excha	nger of air c	onditioner: a	air						
Type: compressor drive	en								
Driver of compressor: e	electric moto	or							
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit	
Rated cooling capacity	Prated,c	90.00	kW		Seasonal space cooling energy efficiency	ηs,c	228.1	%	
Declared cooling capacity for part load at given outdoor temperatures T _j and indoor 27/19°C (dry/wet bulb)					Declared energy efficiency ratio or gas utilisation efficiency /auxiliary energy factor for part load at given outdoor temperatures Tj				
Tj=+35°C	Pdc	90.00	kW		Tj=+35°C	EERd	2.05		
Tj=+30°C	Pdc	66.32	kW		Tj=+30°C	EERd	3.72		
Tj=+25°C	Pdc	42.63	kW		Tj=+25°C	EERd	6.98		
T _j =+20°C	Pdc	18.95	kW		Tj=+20°C	EERd	13.55		
Degradation co-efficient for air conditioners(*)	Cdc	0.25							
		Power consu	umption in mod	des	other than "active mode"				
Off mode	Poff	0.005	kW		Crankcase heater mode	Рск	0.005	kW	
Thermosat-off mode	Рто	0.005	kW		Standby mode	PsB	0.005	kW	
			Othe	er ite	ems				
Capacity control	variable				For air-to-air air conditioner: air flow rate, outdoor measured		28000	m³/h	
Sound power level, outdoor	Lwa	93	dB			•			
GWP of the refrigerant		2088	kg CO _{2 eq} (100years)						

Contact details

(*)If Cdc is not determined by measurement, then the default degradation coefficient of heat pumps shall be 0.25.

Heating mode:

	Infor	mation	require	me	ents for heat pum	ps				
Model(s):VARO900R8' Test matching indoor u		assette:5×V/	ARI100CST+:	3×V	ARI140CST					
Outdoor side heat exch	anger of air	conditioner	air							
Indoor side heat exchar	nger of air c	onditioner: a	nir							
If the heater is equipped	d with a sup	plementary	heater: no							
Driver of compressor: e	lectric moto	r								
Parameters shall be de optional.	clared for th	ne average h	eating seaso	n, p	arameters for the warmer and	colder hea	ating seaso	ons are		
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit		
Rated heating capacity	Prated,h	90.00	kW		Seasonal space heating energy efficiency	ηs,h	165.0	%		
Declared heating capacity for part load at indoor teperature 20°C and outdoor temperatures T _j					Declared coefficient of performance or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures T _j					
Tj=-7°C	Pdh	39.81	kW		Tj=-7°C	COPd	2.41			
Tj=+2°C	Pdh	24.23	kW		Tj=+2°C	COPd	3.75			
Tj=+7°C	Pdh	15.58	kW		Tj=+7°C	COPd	6.84			
Tj=+12°C	Pdh	8.22	kW		Tj=+12°C	COPd	8.79			
T _{biv} =bivalent temperature	Pdh	45.00	kW		T _{biv} =bivalent temperature	COPd	1.86	-		
ToL=operation temperature	Pdh	45.00	kW		ToL =operation temperature	COPd	1.86			
Bivalent temperature	Tbiv	-10	°C							
Degradation co-efficient for heat pumps(**)	Cdh	0.25								
Power consumption in modes other than "active mode"					Supplementary heater					
Off mode	Poff	0.005	kW		Back-up heating capacity(*)	elbu	0	kW		
Thermosat-off mode	Рто	0.005	kW		Type of energy input					
Crankcase heater mode	Рск	0.005	kW		Standby mode	PsB	0.005	kW		
		•	Othe	er ite	ems					
Capacity control	variable				For air-to-air heat pump: air flow rate, outdoor measured		28000	m³/h		
Sound power level,outdoor	Lwa	93	dB							
GWP of the refrigerant		2088	kg CO _{2 eq} (100years)							
Contact details										
(*)										
(**)If Cdh is not determin	ned by meas	surement, th	en the defaul	t de	gradation coefficient of heat p	umps shall	be 0.25.			
					sult and performance data ma it(s) recommended by the ma					

johnson



Escanee para ver este manual en otros idiomas y actualizaciones Scan for manual in other languages and further updates Manuel dans d'autres langues et mis à jour Manual em outras línguas e actualizações

