

# R-32 Mini Chillers



Air cooled mini inverter chiller and heat pump



4-8 kW

9-16 kW

Why choose

# Daikin R-32 models?

Daikin is continuously leading in chiller technology, striving for innovation with the launch of the new generation of air cooled chillers and heat pumps with R-32 refrigerant, expanding more and more its Bluevolution range.

With the highest efficiency at both partial and full load, installers and building owners can give end users better results for all year round comfort – with lower noise levels and higher energy efficiency than ever before.

Thousands of sites around the world have relied on Daikin high efficiency products to reduce their running costs without compromising on climate comfort or performance.

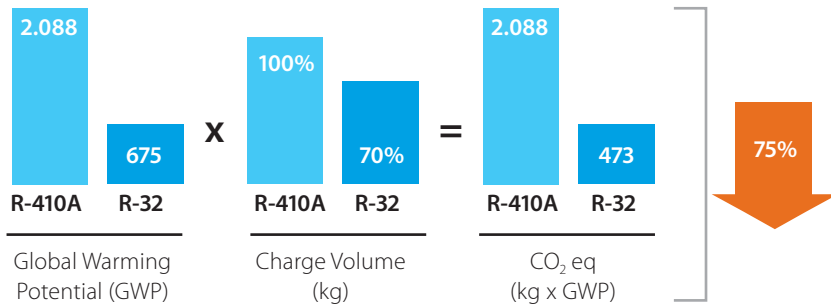
With the new R-32 air cooled mini inverter chiller and heat pump, Daikin has once again improved the units performances, increasing the the energy efficiency and at the same time reducing our environmental footprint.

## R-32 refrigerant

### Environmental Impact

R-32 has zero ozone depletion potential (ODP=0)

- > Lower Global Warming Potential (GWP): only a third of R-410A (R-410A GWP: 2.088; R-32 GWP: 675)
- > Lower refrigerant charge compared to the R-410A units
- > Reduced environmental impact: reduction of CO<sub>2</sub> equivalent up to 75%

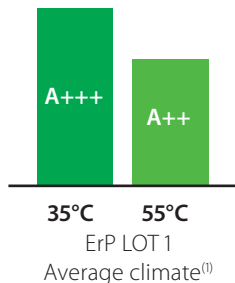


### Safety

- > R-32 is a single component refrigerant: easy to charge, to handle and recycle
- > R-32 has a low flammability therefore it can be safely used in many applications
- > R-32 has low toxicity

### Energy Efficiency

R-32 products have higher energy efficiency: up to A+++



### Cost Effectiveness

- > Pricing stability of R-32 as lower GWP refrigerant is more likely to expect than for other F-gases with higher GWP

#### What is ODP?

The ODP or Ozone Depletion Potential is the potential for a single molecule of the refrigerant to destroy the ozone layer. The smaller the ODP value, the better the refrigerant is for the ozone layer and therefore the environment.

over a period of 100 years. The lower the GWP value, the less harmful a refrigerant is for the environment.

#### What is GWP?

Global Warming Potential (GWP) expresses the potential impact that a particular refrigerant would have on global warming if it were released into the atmosphere. It is a relative value which compares the impact of 1kg of refrigerant to 1kg of CO<sub>2</sub>

#### What is CO<sub>2</sub> equivalent?

CO<sub>2</sub> equivalent is the impact on the Global Warming Potential compared to CO<sub>2</sub>.  
CO<sub>2</sub> equivalent = GWP x kg

(1) In reference to EWA(Y)-D



# Air cooled mini inverter chiller

- › Inverter controlled swing compressor with refrigerant R-32
- › R-32 refrigerant: reduces the environmental impact by 68% compared to R-410A and leads directly to lower energy consumption thanks to its high energy efficiency
- › Application range **cooling** air side + 10°C to + 43°C
- › Application range **cooling** water side + 5°C to + 22°C
- › Compact design with built-in hydraulic kit: no buffer tank required, standard inverter driven pump, expansion vessel, main flow sensor included
- › Renewed fan shape with improved air circulation
- › New casing for the outdoor units
- › Improved serviceability with rotatable switchbox
- › Separate MMI-2 controller for indoor installation



Cooling Only				EWAA-D	004DV3P	006DV3P	008DV3P
Space cooling	A Condition 35°C Pdc			kW	4,50	5,1	5,36
	ηs,c			%	210	212	215
SEER					5,25	5,31	5,36
Cooling capacity	Nom.			kW	4,86 (1) / 4,52 (2)	5,83 (1) / 5,09 (2)	6,18 (1) / 5,44 (2)
Power input	Cooling	Nom.		kW	0,820 (1) / 1,36 (2)	1,08 (1) / 1,55 (2)	1,19 (1) / 1,73 (2)
Capacity control	Method				Variable (inverter)		
EER					5,91 (1) / 3,32 (2)	5,40 (1) / 3,28 (2)	5,19 (1) / 3,14 (2)
Dimensions	Unit	Height		mm	770		
		Width		mm	1.250		
		Depth		mm	362		
Weight	Unit			kg	88		
Water heat exchanger	Type				Plate heat exchanger		
	Water volume			l	1		
Air heat exchanger	Type				Waffle Hydrophilic Blue Fin		
Compressor	Type				Hermetically sealed swing compressor		
	Quantity				1		
Fan	Type				Propeller fan		
	Quantity				1		
Sound power level	Cooling	Nom.		dBA	61 (1)	62 (1)	
Sound pressure level	Cooling	Nom.		dBA	48 (1)	49 (1)	50 (1)
Operation range	Air side	Cooling	Min.~Max.	°CDB	10 (3)~43		
	Water side	Cooling	Min.~Max.	°CDB	5 (3)~22		
Refrigerant	Type/GWP				R-32/675,0		
	Charge			kg	1,35		
Unit	Running Max current			A	0,7		
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50 /230 +/-10%		

(1) Condition 1: cooling Ta 35°C - LWE 18°C (DT = 5°C) | (2)Condition 2: cooling Ta 35°C - LWE 7°C ( DT = 5°C) | (3) For more details, see operation range drawing

# Air cooled mini inverter heat pump

- › Inverter controlled swing compressor with refrigerant R-32
- › R-32 refrigerant: reduces the environmental impact by 68% compared to R-410A and leads directly to lower energy consumption thanks to its high energy efficiency
- › Application range **cooling** air side + 10°C to + 43°C
- › Application range **cooling** water side + 5°C to + 22°C
- › Application range **heating** air side -25°C to +25°C
- › Application range **heating** water side +9°C to +65°C
- › Compact design with built-in hydraulic kit: no buffer tank required, standard inverter driven pump, expansion vessel, main flow sensor included
- › Renewed fan shape with improved air circulation
- › New casing for the outdoor units
- › Improved serviceability with rotatable switchbox
- › Separate MMI-2 controller for indoor installation



Heating & Cooling				EWYA-D	004DV3P	006DV3P	008DV3P
Space cooling	A Condition 35°C Pdc			kW	4,86	5,83	6,18
	ηs,c	%					
SEER				5,25	5,31	5,36	
Space heating	Average climate water outlet 35°C	General	SCOP	4,54	4,52	4,61	
			Seasonal space heating eff. class				A+++
Cooling capacity	Nom.			kW	4,86 (1) / 4,52 (2)	5,83 (1) / 5,09 (2)	6,18 (1) / 5,44 (2)
Heating capacity	Nom.			kW	4,30 (1) / 4,60 (2)	6,00 (1) / 5,90 (2)	7,50 (1) / 7,80 (2)
Power input	Cooling	Nom.		kW	0,820 (1) / 1,36 (2)	1,08 (1) / 1,55 (2)	1,19 (1) / 1,73 (2)
		Heating					
Capacity control	Method			Variable (inverter)			
EER					5,91 (1) / 3,32 (2)	5,40 (1) / 3,28 (2)	5,19 (1) / 3,14 (2)
COP					5,10 (1) / 3,65 (2)	4,85 (1) / 3,50 (2)	4,60 (1) / 3,50 (2)
Dimensions	Unit	Height	mm		770		
		Width	mm		1.250		
		Depth	mm		362		
Weight	Unit			kg	88		
Water heat exchanger	Type			Plate heat exchanger			
	Water volume			l	1		
Air heat exchanger	Type			Waffle Hydrophilic Blue Fin			
Compressor	Type			Hermetically sealed swing compressor			
	Quantity			1			
Fan	Type			Propeller fan			
	Quantity			1			
Sound power level	Cooling	Nom.		dBA	61 (1)	62 (1)	
		Heating		dBA	58 (1)	60 (1)	62 (1)
Sound pressure level	Cooling	Nom.		dBA	48 (1)	49 (1)	50 (1)
		Heating		dBA	44 (1)	47 (1)	49 (1)
Operation range	Air side	Cooling	Min.~Max.	°CDB	10 (3)~43		
			Heating	Min.~Max.	°CDB	-25 ~25	
	Water side	Cooling	Min.~Max.	°CDB	5 (3)~22		
			Heating	Min.~Max.	°CDB	9 (3)~65 (3)	
Refrigerant	Type/GWP			R-32/675,0			
	Charge			kg	1,35		
Unit	Running Max current			A	0,7		
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50 /230 +/-10%		

(1) Condition 1: cooling Ta 35°C - LWE 18°C (DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) | (2) Condition 2: cooling Ta 35°C - LWE 7°C (DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 45°C (DT = 5°C) | (3) For more details, see operation range drawing

# Air cooled mini inverter chiller

- › Inverter controlled swing compressor with refrigerant R-32
- › R-32 refrigerant: reduced environmental impact and 30% less refrigerant charge needed
- › Application range **cooling** air side + 10°C to + 43°C
- › Application range **cooling** water side + 5°C to + 22°C
- › Compact design with built-in hydraulic kit: no buffer tank required, standard inverter driven pump, expansion vessel, main flow sensor included
- › Easy installation and maintenance
- › Separate MMI-2 controller for indoor installation



Cooling Only				EWAA	011DV3P	014DV3P	016DV3P
Space cooling	A Condition 35°C Pdc			kW	11,6	12,8	14,0
	ηs,c			%	229	226	221
SEER					5,79	5,71	5,59
Cooling capacity	Nom.			kW	11,6 (1) / 11,5 (2)	12,8 (1) / 12,7 (2)	14,0 (1) / 15,3 (2)
Power input	Cooling	Nom.		kW	3,56 (1) / 2,17 (2)	4,06 (1) / 2,51 (2)	4,58 (1) / 3,24 (2)
Capacity control	Method			Variable (inverter)			
EER					3,26 (1) / 5,31 (2)	3,16 (1) / 5,04 (2)	3,06 (1) / 4,74 (2)
Dimensions	Unit	Height		mm	870		
		Width		mm	1.380		
		Depth		mm	460		
Weight	Unit			kg	147		
Water heat exchanger	Type			Plate heat exchanger			
	Water volume			l	2		
Air heat exchanger	Type			High efficiency fin and tube type with integral subcooler			
Compressor	Type			Hermetically sealed swing inverter compressor			
	Quantity			1			
Fan	Type			Propeller fan			
	Quantity			1			
Air flow rate	Cooling	Nom.	m³/min	70	85		
				67,0	69,0		
Sound pressure level	Cooling	Nom.		dBA	47,7	50,8	51,0
Operation range	Air side	Cooling	Min.~Max.	°CDB	10~43		
	Water side	Cooling	Min.~Max.	°CDB	5~22		
Refrigerant	Type/GWP			R-32/675,0			
	Control			Electronic expansion valve			
Refrigerant charge	Circuits			Quantity	1		
	Per circuit			kg	3,80		
Unit	Per circuit			TCO <sub>2</sub> Eq	2,6		
	Running current	Max		A	30,8		
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/230		

(1)Cooling: EW 12°C; LW 7°C; ambient conditions: 35°CDB | (2)Cooling: EW 23°C; LW 18°C; ambient conditions: 35°CDB

# Air cooled mini inverter chiller

- › Inverter controlled swing compressor with refrigerant R-32
- › R-32 refrigerant: reduced environmental impact and 30% less refrigerant charge needed
- › Application range **cooling** air side + 10°C to + 43°C
- › Application range **cooling** water side + 5°C to + 22°C
- › Compact design with built-in hydraulic kit: no buffer tank required, standard inverter driven pump, expansion vessel, main flow sensor included
- › Easy installation and maintenance
- › Separate MMI-2 controller for indoor installation



Cooling Only				EWAA	011DW1P	014DW1P	016DW1P
Space cooling	A Condition 35°C Pdc		kW	11,6	12,8	14,0	
	ηs,c		%	229	226	221	
SEER				5,79	5,71	5,59	
Cooling capacity	Nom.		kW	11,6 (1) / 11,5 (2)	12,8 (1) / 12,7 (2)	14,0 (1) / 15,3 (2)	
Power input	Cooling	Nom.	kW	3,56 (1) / 2,17 (2)	4,06 (1) / 2,51 (2)	4,58 (1) / 3,24 (2)	
Capacity control	Method			Variable (inverter)			
EER				3,26 (1) / 5,31 (2)	3,16 (1) / 5,04 (2)	3,06 (1) / 4,74 (2)	
Dimensions	Unit	Height	mm	870			
		Width	mm	1.380			
		Depth	mm	460			
Weight	Unit		kg	147			
Water heat exchanger	Type			Plate heat exchanger			
	Water volume		l	2			
Air heat exchanger	Type			High efficiency fin and tube type with integral subcooler			
Compressor	Type			Hermetically sealed swing inverter compressor			
	Quantity			1			
Fan	Type			Propeller fan			
	Quantity			1			
Air flow rate Cooling	Nom.			m³/min	70	85	
					67,0	69,0	
Sound power level	Cooling	Nom.		47,7	50,8	51,0	
Sound pressure level	Cooling	Nom.					
Operation range	Air side	Cooling	Min.~Max.	°CDB			
	Water side	Cooling	Min.~Max.	°CDB			
Refrigerant	Type/GWP			R-32/675,0			
	Control			Electronic expansion valve			
Refrigerant charge	Circuits		Quantity	1			
	Per circuit		kg	3,80			
Unit	Per circuit		TCO <sub>2</sub> Eq	2,6			
	Running	Max	A	14,0			
Power supply	Phase/Frequency/Voltage		Hz/V	3~/50/400			

(1)Cooling: EW 12°C; LW 7°C; ambient conditions: 35°CDB | (2)Cooling: EW 23°C; LW 18°C; ambient conditions: 35°CDB

# Air cooled mini inverter chiller

- › Inverter controlled swing compressor with refrigerant R-32
- › R-32 refrigerant: reduced environmental impact and 30% less refrigerant charge needed
- › Application range **cooling** air side + 10°C to + 43°C
- › Application range **cooling** water side + 5°C to + 22°C
- › Compact design with built-in hydraulic kit: no buffer tank required, standard inverter driven pump, expansion vessel, main flow sensor included
- › Easy installation and maintenance
- › Separate MMI-2 controller for indoor installation
- › Water piping heater tape (OP10) as standard for a better insulation of the hydraulic<sup>(3)</sup>



Cooling Only				EWAA	011DV3P-H-	014DV3P-H-	016DV3P-H-
Space cooling	A Condition 35°C Pdc		kW	11,6	12,8	14,0	
	ηs,c		%	229	226	221	
SEER				5,79	5,71	5,59	
Cooling capacity	Nom.		kW	11,6 (1) / 11,5 (2)	12,8 (1) / 12,7 (2)	14,0 (1) / 15,3 (2)	
Power input	Cooling	Nom.	kW	3,56 (1) / 2,17 (2)	4,06 (1) / 2,51 (2)	4,58 (1) / 3,24 (2)	
Capacity control	Method			Variable (inverter)			
EER				3,26 (1) / 5,31 (2)	3,16 (1) / 5,04 (2)	3,06 (1) / 4,74 (2)	
Dimensions	Unit	Height	mm	870			
		Width	mm	1.380			
		Depth	mm	460			
Weight	Unit		kg	147			
Water heat exchanger	Type			Plate heat exchanger			
	Water volume		l	2			
Air heat exchanger	Type			High efficiency fin and tube type with integral subcooler			
Compressor	Type			Hermetically sealed swing inverter compressor			
	Quantity			1			
Fan	Type			Propeller fan			
	Quantity			1			
Air flow rate Cooling	Nom.			m³/min	70	85	
					67,0	69,0	
Sound power level	Cooling	Nom.		47,7	50,8	51,0	
Sound pressure level	Cooling	Nom.					
Operation range	Air side	Cooling	Min.~Max.	°CDB			
	Water side	Cooling	Min.~Max.	°CDB			
Refrigerant	Type/GWP			R-32/675,0			
	Control			Electronic expansion valve			
	Circuits	Quantity		1			
Refrigerant charge	Per circuit		kg	3,80			
	Per circuit		TCO <sub>2</sub> Eq	2,6			
Unit	Running current	Max	A	30,8			
Power supply	Phase/Frequency/Voltage		Hz/V	1~/50/230			

(1)Cooling: EW 12°C; LW 7°C; ambient conditions: 35°CDB | (2)Cooling: EW 23°C; LW 18°C; ambient conditions: 35°CDB; (3) EWAA-DVP3-H- has water piping heater tape (OP10) as standard

# Air cooled mini inverter chiller

- › Inverter controlled swing compressor with refrigerant R-32
- › R-32 refrigerant: reduced environmental impact and 30% less refrigerant charge needed
- › Application range **cooling** air side + 10°C to + 43°C
- › Application range **cooling** water side + 5°C to + 22°C
- › Compact design with built-in hydraulic kit: no buffer tank required, standard inverter driven pump, expansion vessel, main flow sensor included
- › Easy installation and maintenance
- › Separate MMI-2 controller for indoor installation
- › Water piping heater tape (OP10) as standard for a better insulation of the hydraulic<sup>(3)</sup>



Cooling Only				EWAA	011DW1P-H-	014DW1P-H-	016DW1P-H-
Space cooling	A Condition 35°C Pdc		kW	11,6	12,8	14,0	
	ηs,c		%	229	226	221	
SEER				5,79	5,71	5,59	
Cooling capacity	Nom.		kW	11,6 (1) / 11,5 (2)	12,8 (1) / 12,7 (2)	14,0 (1) / 15,3 (2)	
Power input	Cooling	Nom.	kW	3,56 (1) / 2,17 (2)	4,06 (1) / 2,51 (2)	4,58 (1) / 3,24 (2)	
Capacity control	Method			Variable (inverter)			
EER				3,26 (1) / 5,31 (2)	3,16 (1) / 5,04 (2)	3,06 (1) / 4,74 (2)	
Dimensions	Unit	Height	mm	870			
		Width	mm	1.380			
		Depth	mm	460			
Weight	Unit		kg	147			
Water heat exchanger	Type			Plate heat exchanger			
	Water volume		l	2			
Air heat exchanger	Type			High efficiency fin and tube type with integral subcooler			
Compressor	Type			Hermetically sealed swing inverter compressor			
	Quantity			1			
Fan	Type			Propeller fan			
	Quantity			1			
Air flow rate	Cooling	Nom.	m³/min	70	85		
	Sound power level	Cooling	Nom.	dBA	67,0	69,0	
Sound pressure level	Cooling	Nom.	dBA	47,7	50,8	51,0	
	Operation range	Air side	Cooling	Min.~Max.	10~43		
Water side		Cooling	Min.~Max.	5~22			
Refrigerant	Type/GWP			R-32/675,0			
	Control			Electronic expansion valve			
	Circuits	Quantity		1			
Refrigerant charge	Per circuit		kg	3,80			
	Per circuit		TCO <sub>2</sub> Eq	2,6			
Unit	Running	Max	A	14,0			
	current						
Power supply	Phase/Frequency/Voltage		Hz/V	3~/50/400			

(1)Cooling: EW 12°C; LW 7°C; ambient conditions: 35°CDB | (2)Cooling: EW 23°C; LW 18°C; ambient conditions: 35°CDB; (3) EWAA-DW1P-H- has water piping heater tape (OP10) as standard

# Air cooled mini inverter heat pump

- › Inverter controlled swing compressor with refrigerant R-32
- › R-32 refrigerant: reduced environmental impact and 30% less refrigerant charge needed
- › Application range **cooling** air side + 10°C to + 43°C
- › Application range **cooling** water side + 5°C to + 22°C
- › Application range **heating** air side -25°C to +25°C
- › Application range **heating** water side +9°C to +60°C
- › Compact design with built-in hydraulic kit: no buffer tank required, standard inverter driven pump, expansion vessel, main flow sensor included
- › Easy installation and maintenance
- › Separate MMI-2 controller for indoor installation



Heating & Cooling				EWYA-D	009DV3P	011DV3P	014DV3P	016DV3P
Space cooling	A Condition 35°C Pdc			kW	9,35	11,6	12,8	14,0
	ηs,c			%	222	229	226	221
SEER					5,62	5,79	5,71	5,59
Space heating	Average climate water outlet 35°C	General	SCOP		4,82	4,73	4,70	4,69
		Seasonal space heating eff. class			A+++			
Cooling capacity	Nom.			kW	9,35 (1) / 9,10 (2)	11,6 (1) / 11,5 (2)	12,8 (1) / 12,7 (2)	14,0 (1) / 15,3 (2)
Heating capacity	Nom.			kW	9,37 (3) / 9,00 (4)	10,6 (3) / 9,82 (4)	12,0 (3) / 12,5 (4)	16,0 (3) / 16,0 (4)
Power input	Cooling	Nom.		kW	2,79 (1) / 1,71 (2)	3,56 (1) / 2,17 (2)	4,06 (1) / 2,51 (2)	4,58 (1) / 3,24 (2)
	Heating	Nom.		kW	1,91 (3) / 2,43 (4)	2,18 (3) / 2,68 (4)	2,46 (3) / 3,42 (4)	3,53 (3) / 4,56 (4)
Capacity control	Method				Variable (inverter)			
EER					3,35 (1) / 5,34 (2)	3,26 (1) / 5,31 (2)	3,16 (1) / 5,04 (2)	3,06 (1) / 4,74 (2)
COP					4,91 (3) / 3,71 (4)	4,83 (3) / 3,66 (4)	4,87 (3) / 3,64 (4)	4,53 (3) / 3,51 (4)
Dimensions	Unit	Height	mm	870				
		Width	mm	1.380				
		Depth	mm	460				
Weight	Unit			kg	147			
Water heat exchanger	Type			Plate heat exchanger				
	Water volume			l	2			
Air heat exchanger	Type			High efficiency fin and tube type with integral subcooler				
Compressor	Type			Hermetically sealed swing inverter compressor				
	Quantity			1				
Fan	Type			Propeller fan				
	Quantity			1				
	Air flow rate	Cooling	Nom.	m³/min	63	70	85	85,0
Sound power level	Cooling	Nom.		dBA	48,0	55,8	70,4	85,0
			Heating	Nom.	dBA	65,5	67,0	69,0
Sound pressure level	Cooling	Nom.		dBA	44,0	47,7	50,8	51,0
			Heating	Nom.	dBA	44,0	47,7	50,8
Operation range	Air side	Cooling	Min.~Max.	°CDB	10~43			
		Heating	Min.~Max.	°CDB	-25~25			
	Water side	Cooling	Min.~Max.	°CDB	5~22			
		Heating	Min.~Max.	°CDB	9~60			
Refrigerant	Type/GWP			R-32/675,0				
	Control			Electronic expansion valve				
	Circuits	Quantity		1				
Refrigerant charge	Per circuit			kg	3,80			
	Per circuit			TCO <sub>2</sub> Eq	2,6			
Unit	Running current	Max		A	30,8			
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/230			

(1)Cooling: EW 12°C; LW 7°C; ambient conditions: 35°CDB | (2)Cooling: EW 23°C; LW 18°C; ambient conditions: 35°CDB | (3)Condition: Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) | (4)Condition: Ta DB/WB 7°C/6°C - LWC 45°C (DT=5°C)

# Air cooled mini inverter heat pump

- › Inverter controlled swing compressor with refrigerant R-32
- › R-32 refrigerant: reduced environmental impact and 30% less refrigerant charge needed
- › Application range **cooling** air side + 10°C to + 43°C
- › Application range **cooling** water side + 5°C to + 22°C
- › Application range **heating** air side -25°C to +25°C
- › Application range **heating** water side +9°C to +60°C
- › Compact design with built-in hydraulic kit: no buffer tank required, standard inverter driven pump, expansion vessel, main flow sensor included
- › Easy installation and maintenance
- › Separate MMI-2 controller for indoor installation



Heating & Cooling				EWYA-D	009DW1P	011DW1P	014DW1P	016DW1P
Space cooling	A Condition 35°C Pdc		kW	9,35	11,6	12,8	14,0	
	ηs,c		%	222	229	226	221	
SEER				5,62	5,79	5,71	5,59	
Space heating	Average climate water outlet 35°C	General	SCOP	4,82	4,73	4,70	4,69	
		Seasonal space heating eff. class		A+++				
Cooling capacity	Nom.		kW	9,35 (1) / 9,10 (2)	11,6 (1) / 11,5 (2)	12,8 (1) / 12,7 (2)	14,0 (1) / 15,3 (2)	
Heating capacity	Nom.		kW	9,37 (3) / 9,00 (4)	10,6 (3) / 9,82 (4)	12,0 (3) / 12,5 (4)	16,0 (3) / 16,0 (4)	
Power input	Cooling	Nom.	kW	2,79 (1) / 1,71 (2)	3,56 (1) / 2,17 (2)	4,06 (1) / 2,51 (2)	4,58 (1) / 3,24 (2)	
	Heating	Nom.	kW	1,91 (3) / 2,43 (4)	2,18 (3) / 2,68 (4)	2,46 (3) / 3,42 (4)	3,53 (3) / 4,56 (4)	
Capacity control	Method			Variable (inverter)				
EER				3,35 (1) / 5,34 (2)	3,26 (1) / 5,31 (2)	3,16 (1) / 5,04 (2)	3,06 (1) / 4,74 (2)	
COP				4,91 (3) / 3,71 (4)	4,83 (3) / 3,66 (4)	4,87 (3) / 3,64 (4)	4,53 (3) / 3,51 (4)	
Dimensions	Unit	Height	mm	870				
		Width	mm	1.380				
		Depth	mm	460				
Weight	Unit		kg	147				
Water heat exchanger	Type			Plate heat exchanger				
	Water volume		l	2				
Air heat exchanger	Type			High efficiency fin and tube type with integral subcooler				
Compressor	Type			Hermetically sealed swing inverter compressor				
	Quantity			1				
Fan	Type			Propeller fan				
	Quantity			1				
	Air flow rate	Cooling Nom.	m³/min	63	70	85	85,0	
Sound power level	Heating	Nom.	dBA	48,0	55,8	70,4	85,0	
	Cooling	Nom.	dBA	65,5	67,0	69,0	69,0	
Sound pressure level	Cooling	Nom.	dBA	44,0	47,7	50,8	51,0	
	Operation range	Air side	Cooling	Min.~Max.	10~43			
Heating			Min.~Max.	-25~25				
Water side		Cooling	Min.~Max.	5~22				
		Heating	Min.~Max.	9~60				
Refrigerant	Type/GWP			R-32/675,0				
	Control			Electronic expansion valve				
	Circuits	Quantity		1				
Refrigerant charge	Per circuit		kg	3,80				
	Per circuit		TCO <sub>2</sub> Eq	2,6				
Unit	Running current	Max	A	14,0				
Power supply	Phase/Frequency/Voltage		Hz/V	3~/50/400				

(1)Cooling: EW 12°C; LW 7°C; ambient conditions: 35°CDB | (2)Cooling: EW 23°C; LW 18°C; ambient conditions: 35°CDB | (3)Condition: Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) | (4)Condition: Ta DB/WB 7°C/6°C - LWC 45°C (Dt=5°C)

# Air cooled mini inverter heat pump

- › Inverter controlled swing compressor with refrigerant R-32
- › R-32 refrigerant: reduced environmental impact and 30% less refrigerant charge needed
- › Application range **cooling** air side + 10°C to + 43°C
- › Application range **cooling** water side + 5°C to + 22°C
- › Application range **heating** air side -25°C to +25°C
- › Application range **heating** water side +9°C to +60°C
- › Compact design with built-in hydraulic kit: no buffer tank required, standard inverter driven pump, expansion vessel, main flow sensor included
- › Easy installation and maintenance
- › Separate MMI-2 controller for indoor installation
- › Water piping heater tape (OP10) as standard for a better insulation of the hydraulic<sup>(5)</sup>



Heating & Cooling				EWYA-D	009DV3P-H-	011DV3P-H-	014DV3P-H-	016DV3P-H-
Space cooling	A Condition 35°C Pdc		kW	9,35	11,6	12,8	14,0	
	ηs,c		%	222	229	226	221	
SEER				5,62	5,79	5,71	5,59	
Space heating	Average climate water outlet 35°C	General	SCOP	4,82	4,73	4,70	4,69	
		Seasonal space heating eff. class		A+++				
Cooling capacity	Nom.		kW	9,35 (1) / 9,10 (2)	11,6 (1) / 11,5 (2)	12,8 (1) / 12,7 (2)	14,0 (1) / 15,3 (2)	
Heating capacity	Nom.		kW	9,37 (3) / 9,00 (4)	10,6 (3) / 9,82 (4)	12,0 (3) / 12,5 (4)	16,0 (3) / 16,0 (4)	
Power input	Cooling	Nom.	kW	2,79 (1) / 1,71 (2)	3,56 (1) / 2,17 (2)	4,06 (1) / 2,51 (2)	4,58 (1) / 3,24 (2)	
	Heating	Nom.	kW	1,91 (3) / 2,43 (4)	2,18 (3) / 2,68 (4)	2,46 (3) / 3,42 (4)	3,53 (3) / 4,56 (4)	
Capacity control	Method		Variable (inverter)					
EER				3,35 (1) / 5,34 (2)	3,26 (1) / 5,31 (2)	3,16 (1) / 5,04 (2)	3,06 (1) / 4,74 (2)	
COP				4,91 (3) / 3,71 (4)	4,83 (3) / 3,66 (4)	4,87 (3) / 3,64 (4)	4,53 (3) / 3,51 (4)	
Dimensions	Unit	Height	mm	870				
		Width	mm	1.380				
		Depth	mm	460				
Weight	Unit		kg	147				
Water heat exchanger	Type		Plate heat exchanger					
	Water volume		l	2				
Air heat exchanger	Type		High efficiency fin and tube type with integral subcooler					
Compressor	Type		Hermetically sealed swing inverter compressor					
	Quantity		1					
Fan	Type		Propeller fan					
	Quantity		1					
	Air flow rate	Cooling Nom.	m <sup>3</sup> /min	63	70	85	85,0	
Sound power level	Heating	Nom.	dBA	48,0	55,8	70,4	85,0	
	Cooling	Nom.	dBA	65,5	67,0	69,0	69,0	
Sound pressure level	Cooling	Nom.	dBA	44,0	47,7	50,8	51,0	
	Operation range	Air side	Cooling	Min.~Max.	°CDB			10~43
Heating			Min.~Max.	°CDB			-25~25	
Water side		Cooling	Min.~Max.	°CDB			5~22	
		Heating	Min.~Max.	°CDB			9~60	
Refrigerant	Type/GWP		R-32/675,0					
	Control		Electronic expansion valve					
	Circuits	Quantity	1					
Refrigerant charge	Per circuit		kg	3,80				
	Per circuit		TCO <sub>2</sub> Eq	2,6				
Unit	Running current	Max	A	30,8				
Power supply	Phase/Frequency/Voltage		Hz/V	1~/50/230				

(1)Cooling: EW 12°C; LW 7°C; ambient conditions: 35°CDB | (2)Cooling: EW 23°C; LW 18°C; ambient conditions: 35°CDB | (3)Condition: Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) | (4)Condition: Ta DB/WB 7°C/6°C - LWC 45°C (Dt=5°C) | (5) EWYA-DV3P-H- has water piping heater tape (OP10) as standard

# Air cooled mini inverter heat pump

- › Inverter controlled swing compressor with refrigerant R-32
- › R-32 refrigerant: reduced environmental impact and 30% less refrigerant charge needed
- › Application range **cooling** air side + 10°C to + 43°C
- › Application range **cooling** water side + 5°C to + 22°C
- › Application range **heating** air side -25°C to +25°C
- › Application range **heating** water side +9°C to +60°C
- › Compact design with built-in hydraulic kit: no buffer tank required, standard inverter driven pump, expansion vessel, main flow sensor included
- › Easy installation and maintenance
- › Separate MMI-2 controller for indoor installation
- › Water piping heater tape (OP10) as standard for a better insulation of the hydraulic<sup>(5)</sup>



Heating & Cooling				EWYA-D	009DW1P-H-	011DW1P-H-	014DW1P-H-	016DW1P-H-
Space cooling	A Condition 35°C Pdc		kW	9,35	11,6	12,8	14,0	
	ηs,c		%	222	229	226	221	
SEER				5,62	5,79	5,71	5,59	
Space heating	Average climate water outlet 35°C	General	SCOP	4,82	4,73	4,70	4,69	
		Seasonal space heating eff. class		A+++				
Cooling capacity	Nom.		kW	9,35 (1) / 9,10 (2)	11,6 (1) / 11,5 (2)	12,8 (1) / 12,7 (2)	14,0 (1) / 15,3 (2)	
Heating capacity	Nom.		kW	9,37 (3) / 9,00 (4)	10,6 (3) / 9,82 (4)	12,0 (3) / 12,5 (4)	16,0 (3) / 16,0 (4)	
Power input	Cooling	Nom.	kW	2,79 (1) / 1,71 (2)	3,56 (1) / 2,17 (2)	4,06 (1) / 2,51 (2)	4,58 (1) / 3,24 (2)	
	Heating	Nom.	kW	1,91 (3) / 2,43 (4)	2,18 (3) / 2,68 (4)	2,46 (3) / 3,42 (4)	3,53 (3) / 4,56 (4)	
Capacity control	Method		Variable (inverter)					
EER				3,35 (1) / 5,34 (2)	3,26 (1) / 5,31 (2)	3,16 (1) / 5,04 (2)	3,06 (1) / 4,74 (2)	
COP				4,91 (3) / 3,71 (4)	4,83 (3) / 3,66 (4)	4,87 (3) / 3,64 (4)	4,53 (3) / 3,51 (4)	
Dimensions	Unit	Height	mm	870				
		Width	mm	1.380				
		Depth	mm	460				
Weight	Unit		kg	147				
Water heat exchanger	Type		Plate heat exchanger					
	Water volume		l	2				
Air heat exchanger	Type		High efficiency fin and tube type with integral subcooler					
Compressor	Type		Hermetically sealed swing inverter compressor					
	Quantity		1					
Fan	Type		Propeller fan					
	Quantity		1					
	Air flow rate	Cooling Nom.	m <sup>3</sup> /min	63	70	85	85,0	
Sound power level	Heating	Nom.	dBA	48,0	55,8	70,4	85,0	
	Cooling	Nom.	dBA	65,5	67,0	69,0	69,0	
Sound pressure level	Cooling	Nom.	dBA	44,0	47,7	50,8	51,0	
	Operation range	Air side	Cooling	Min.~Max.	10~43			
Heating			Min.~Max.	-25~25				
Water side		Cooling	Min.~Max.	5~22				
		Heating	Min.~Max.	9~60				
Refrigerant	Type/GWP		R-32/675,0					
	Control		Electronic expansion valve					
	Circuits	Quantity	1					
Refrigerant charge	Per circuit		kg	3,80				
	Per circuit		TCO <sub>2</sub> Eq	2,6				
Unit	Running current	Max	A	14,0				
Power supply	Phase/Frequency/Voltage		Hz/V	3~/50/400				

(1)Cooling: EW 12°C; LW 7°C; ambient conditions: 35°CDB | (2)Cooling: EW 23°C; LW 18°C; ambient conditions: 35°CDB | (3)Condition: Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) | (4)Condition: Ta DB/WB 7°C/6°C - LWC 45°C (Dt=5°C) | 5) EWYA-DW1P-H- has water piping heater tape (OP10) as standard



## Kit availability for Mini Chiller

Reference	Description	Cooling only	Reversible
		EWAA0(04/06/08)D2V3P	EWYA0(04/06/08)D2V3P
EKRPIHBA (1)	Digital I/O PCB	•	•
EKRPIAHT	Demand PCB	•	•
BRC1HHDK	Remote user interface - Madoka black	•	•
BRC1HHDS	Remote user interface - Madoka silver	•	•
BRC1HHDW	Remote user interface - Madoka white	•	•
BRP069A61	LAN adapter with solar connectivity	•	•
BRP069A62	LAN adapter	•	•
BRP069A78 (2)	WLAN cartridge	•	•
EKRELSG	Smart grid relay	•	•
KRCS01-1 (3)	Remote indoor sensor	•	•
EKRSC1(3)	Decentralized outside temperature sensor	•	•
EKPCCAB4	PC cable	•	•
EKCC-W	Universal controller for cascade control	•	•
EKLBUHCB6W1 (4)	BUH kit - electric heater	-	•
EKMBHBP (4)	BY-pass valve for BHU monobloc	-	•
EKFLSW2 (5)	Flow Switch	•	•
AFVALVE1	Freeze protection valve	•	•
EKMIKPOA	Mixing kit - PCB only	•	•
EKMIKPHA	Mixing kit - PCB with hydraulics	•	•
EKMIKHMA (6)	Hydraulics - mixed pump ground	•	•
EKMIKHUA (6)	Hydraulics - unmixed pump ground	•	•
EKMIKBVA	Balancing vessel	•	•
EKMIKDIA (7)	Distributor for balancing vessel	•	•
EKRTWA	Wired room thermostat	•	•
EKRTRB	Wireless room thermostat, 230 V	•	•
EKRTEETS (8)	External temperature sensor option kit	•	•

(1) Additional relays to allow bivalent control in combination with an external room thermostat are field-supplied

(2) This option cannot be installed in certain countries. Refer to the country compliance overview of the option

(3) Only 1 remote sensor can be connected: indoor OR outdoor sensor

(4) Necessity to install a bypass kit (EKMBHBP1) to avoid sweat on the BUH, when the BUH is installed in combination with a reversible model

(5) EKFLSW2- is obligatory for Monoblock & Mini chiller in case Glycol is used

(6) Only possible in combination with EKMIKPOAF

(7) Only possible in combination with EKMIKBVAF and EKMIKPHAF or EKMIKHUAF

(8) Can only be used in combination with the wireless room thermostat



## Kit availability for Mini Chiller

Reference	Description	Cooling only	Reversible
		EWAA(011/014/016) DA(V3P/W1P) (-H-)	EWYA(009/011/014/016) DA(V3P/W1P) (-H-)
EKRPIHBA (1)	Digital I/O PCB	●	●
EKRPIAHT	Demand PCB	●	●
BRC1HHDK	Remote user interface - Madoka black	●	●
BRC1HHDS	Remote user interface - Madoka silver	●	●
BRC1HHDW	Remote user interface - Madoka white	●	●
BRP069A78 (2)	WLAN cartridge	●	●
EKRELSG	Smart grid relay	●	●
KRCS01-1 (3)	Remote indoor sensor	●	●
EKRSC1 (3)	Decentralized outside temperature sensor	●	●
EKPCCAB4	PC cable	●	●
EKCC-W	Universal controller for cascade control	●	●
EKLBUHCB6W1(4)(5)	BUH kit - electric heater	●	●
EKMBHBP (4) (5)	BY-pass valve for BHU monobloc	-	●
EKFLSW1 (6)	Flow Switch	-	●
AFVALVE1	Freeze protection valve	●	●
EKRRTWA	Wired room thermostat	●	●
EKRTR	Wireless room thermostat, 230 V	●	●
EKRTEETS (7)	External temperature sensor option kit	●	●

(1) Additional relays to allow bivalent control in combination with an external room thermostat are field-supplied

(2) This option cannot be installed in certain countries. Refer to the country compliance overview of the option

(3) Only 1 remote sensor can be connected: indoor OR outdoor sensor

(4) Only for reversible models

(5) Necessity to install a bypass kit (EKMBHBP1) to avoid sweat on the BUH, when the BUH is installed in combination with a reversible model

(6) EKFLSW1- is obligatory for Monoblock & Mini chiller in case Glycol is used

(7) Can only be used in combination with the wireless room thermostat



# R-32 Mini Chillers

## Air cooled mini inverter chiller and heat pump with low GWP R-32

**A very compact air cooled unit, available both in cooling only (EWAA-DA) and heat pump configurations (EWYA-DA). Thanks to its extended range from 4-16 kW it's a green and efficient solution for all those residential applications requiring compact units for comfort cooling and heating.**

- › Environmental friendly R-32 refrigerant
- › Compact - reduced foot print
- › Seasonal efficiency up to A+++
- › Maximum leaving water temperature up to 60°C (9-16 kW) and up to 65°C (4-8 kW)
- › Easy installation and maintenance



4-8 kW



9-16 kW

Find out more: [www.daikin-ce.com/minichiller](http://www.daikin-ce.com/minichiller)

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