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WD-16025300005215

16	17	18	19	20

Þ	Factory code	Date	Revision
	1 6 025300005215	2020.04.24	J

								. 7	<u> </u>						
1 2 3 4	5 6	/	8	9	10	11	12	13	14	15	16	1 /	18	19	20
	Error Code														
		L BOARD			HYDRO	BOX CONTROL BOAR	D] Г	CODE	NAME					
	Display Fault or Protect	ion		Display	Faul	t or Protection] 1	COMP	Inverter compres	ssor				
	Phase loss or neutral wire and live wi	re are connected reversel	у		ter flow fault (E8 disp		•	_	EEV1/2	Electric expansi	on valve				
	E1 (only for three phase unit)	poratura concer (T2) fault		E2 con	trol board of hydrauli	ween controller and ma c module	lin	1	FAN_UP/DOWN	DC fan motor					
	E5 The condenser outlet refrigerant temp	. ,		I HO		ween main control boa	rd of hydraulic	7 D	HEAT1/HEAT2	Crankcase heat	ing				
	E6 The ambient temperature sensor (T4 E9 Compressor suction temp.sensor (Th				dule and main contro al outlet water temp. s			- D	H_PRO/L_PRO	High/Low pressu	ure switch				
	EA Compressor discharge temp.sensor (ter tank temp. sensor			- 0	H-SEN	High pressure s	ensor				
					ter flow fault	· · /				Big 4-phase terr	ninal				
	F1 DC bus low voltage protection	trol board of bydraulic				er inlet temp. sensor (「w_in) fault	- 1	CT1	AC current trans	former				
	H0 Communication fault between main con module and main control board	as board of fryurdullo			-	of hydraulic module EE				Reactor					
	L1 Communication malfunction between	main control board and			e plate exchanger refi sor(T2) fault	igerant outlet (liquid pi	be) temp.			4-way valve					
	H4 Three times P6 protecttion			The	e plate exchanger refi	igerant outlet (gas pipe	e) temp.			Solenoid valve					
	H4 DC fan motor fault				sor(T2B) fault			⊣ Ľ	T3/T3A	Piping temperat					
	H7 Main circuit voltage protection fault			HA Sen	e plate heat exchange sor (TW_out) fault	r water outlet tempera	ure	-	Т4	Outdoor ambien	t temperature				
	H8 Pressure sensor fault				ee times "PP" protect	ion and				sensor Compressor extr	aust temperature				
	HF Inverter module board EEPROM fault				ar panel temp.sensor	(Tsolar) fault		-	TP	sensor	ianor colliborani o				
	HH H6 displayed 10 times in 120 minutes	3		H9 Zon	e 2 water flow temp.	sensor(Tw2) fault] [.	тн	Compressor retu	im temperature				
	C7 High temp. protection of inverter module	9			-freeze mode protect] L	in in	sensor	·				
	HP Low pressure protection , (Pe<0.6)occ	curred 3 times in 1 hour in c	ooling mode			nce protection betwee he plate heat exchange			SW1/SW2	Key					
	P0 Low pressure protection				ter inlet temperature i eating mode	s higher than water ou	let	7 F			owitch				
	P1 High pressure protection P3 Compressor overcurrent protection				balance tank up tem	p.sensor (Tbt1) fault			<u>S3</u>	Rotary dip	SWILCT				
	P3 Compressor overcurrent protection P4 Compressor discharge temp. too high	protection				np.sensor(Tbt2) fault		- L	S1/S2/S4/SW	9 Switch					
	P6 Inverter module protection			H5 Roo	om temp.sensor(Ta) f	ault		1 [FS	Flow Switc	h				
	Pd High temperature protection of refrigeran	t outlet temp. of condenser			nmunication fault bet parallel)	ween master unit and	slave unit		, -	Motorized					
	bH PED PCB fault				-	ween indoor unit and T	a / room		SV1 - SV3		=				
	L0 DC compressor inverter module fault			the	rmostart transfer PCE	3				valve (fiel	a supply)				
	L1 DC bus low voltage protection (from inverte compressor running)	er module mostly when							T2, T2B, TW-in, TW-out, T1, Tbt1	. Temperatu	702002 07				
	L2 DC bus high voltage protection from DC d	river				X CONTROL B	OARD		Tbt2, T5, TW2, Tsc		6 36 1361				
	L4 MCE fault L5 Zero speed protection					DEFAULT		F	PUMP	Variable sp	eed pump				
	L5 Zero speed protection L7 Phase sequence fault					S2 S3		Г	XT1	Terminal	block				
	L8 Compressor frequency variation greater	than 15Hz within 1 second	protection		S1 DN DIP 1 2 3 4		DIP 2 3 4	F	SG	Solar ener	rgy				
	L9 Actual compressor frequency differs from by more than 15Hz protection	m target frequency					Factory	F	EVU	Commerci					
					witch ON=1	OFF=0	defaluts	ľ	M1/M2	Remote s	witch				
		Outdoor unit capacity]		1 Reserved	Reserved	OFF	Γ	KM5 - KM11	AC Conta	ctor				
	ON OFF	OFF-OFF,18kW		S	2 Reserved		OFF	- नि	omn concer and	Bross					
		Outdoor unit capacity			0/0=Without IE 0/1=With AHS		3:OFF		emp.sensor code		rty values				
	ON OFF	OFF-ON,22kW			3/4 1/0=With IBH 1/1=With AHS	for heat mode and	4:OFF		T2/T2B	B _{25/50} =4100K	(, R ₂₅₀ =10kΩ				
		Outdoor unit capacity			DHW mode				T1/TW_out	Barran=3970	⟨,R_{sorc}=17.6k Ω				
	ON OFF	ON-OFF,26kW			Start pumpo af six hours will b		OFF		TW_in/T5/T1B	w/100 0 0 0 0	in a state of the second s	l			
		Outdoor unit capacity		S2	invalid	valid		Г	CN35-SMAR						

	MAIN CONTROL BOARD
Display	Fault or Protection
E1	Phase loss or neutral wire and live wire are connected reversely (only for three phase unit)
E5	The condenser outlet refrigerant temperature sensor (T3) fault
E6	The ambient temperature sensor (T4) fault
E9	Compressor suction temp.sensor (Th) fault
EA	Compressor discharge temp.sensor (Tp) fault
F1	DC bus low voltage protection
	Communication fault between main control board of hydraulic
H0	module and main control board
H1	Communication malfunction between main control board and inventer board
H4	Three times P6 protecttion
H6	DC fan motor fault
H7	Main circuit voltage protection fault
H8	Pressure sensor fault
HF	Inverter module board EEPROM fault
HH	H6 displayed 10 times in 120 minutes
C7	High temp. protection of inverter module
HP	Low pressure protection , (Pe ${<}0.6)$ occurred 3 times in 1 hour in cooling mode
P0	Low pressure protection
P1	High pressure protection
P3	Compressor overcurrent protection
P4	Compressor discharge temp. too high protection
P6	Inverter module protection
Pd	High temperature protection of refrigerant outlet temp. of condenser
bH	PED PCB fault
L0	DC compressor inverter module fault
L1	DC bus low voltage protection (from inverter module mostly when compressor running)
L2	DC bus high voltage protection from DC driver
L4	MCE fault
L5	Zero speed protection
L7	Phase sequence fault
L8	Compressor frequency variation greater than 15Hz within 1 second protection
L9	Actual compressor frequency differs from target frequency by more than 15Hz protection

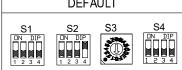
S6	ON OFF 0FF 0FF 0FF 0FF 0FF 0FF 0FF 0FF 0FF	Outdoor unit capacity OFF-OFF,18kW Outdoor unit capacity OFF-ON,22kW Outdoor unit capacity ON-OFF,26kW Outdoor unit capacity ON-ON,30kW
Note: S6-3		UN-UN,3UKW

Caution

 Operate the switches and push buttons with an insulated stick (such as a closed ball-point pen) to avoid touching of components.



	HYDRO-BOX CONTROL BOARD
Disp l ay	Fault or Protection
E0	Water flow fault (E8 displayed 3 times)
E2	Communication fault between controller and main control board of hydraulic module
H0	Communication fault between main control board of hydraulic module and main control board
E3	Final outlet water temp. sensor(T1) fault
E4	Water tank temp. sensor(T5) fault
E8	Water flow fault
Ed	The plate exchanger water inlet temp. sensor (Tw_in) fault
EE	The main control board of hydraulic module EEPROM fault
H2	The plate exchanger refrigerant outlet (liquid pipe) temp. sensor(T2) fault
H3	The plate exchanger refrigerant outlet (gas pipe) temp. sensor(T2B) fault
HA	The plate heat exchanger water outlet temperature sensor (TW_out) fault
Hb	Three times "PP" protection and
Eb	Solar panel temp.sensor(Tsolar) fault
H9	Zone 2 water flow temp. sensor(Tw2) fault
Pb	Anti-freeze mode protection
P5	High Temperature difference protection between water inlet and water outlet of the plate heat exchanger
PP	Water inlet temperature is higher than water outlet in heating mode
E7	The balance tank up temp.sensor (Tbt1) fault
Ec	The balance tank low temp.sensor(Tbt2) fault
H5	Room temp.sensor(Ta) fault
Hd	Communication fault between master unit and slave unit (in parallel)
HE	Communication fault between indoor unit and Ta / room thermostart transfer PCB



DI swi	•	ON=1	OFF=0	Factory defaluts
	1	Reserved	Reserved	OFF
~ 1	2	Reserved	Reserved	OFF
S1	3/4	0/0=Without IBH an 0/1=With AHS for h 1/0=With IBH 1/1=With AHS for h DHW mode	eat mode	3:OFF 4:OFF
	1	Start pumpo after six hours will be invalid	Start pumpo after six hours will be valid	OFF
S2	2	Without TBH	With TBH	OFF
	3/4	0/1=constant spee 1/0=variable speed	d pump,Max head:8.5m d pump d pump,Max head:10.5n d pump,Max head:9.0m	3:OFF 4:ON
	1/2	Reserved	Reserved	1:OFF 2:OFF
S4	3/4	Reserved	Reserved	3:OFF 4:OFF

3 14	15	16	17	18	19	
CODE	NAME		1			
COMP	Inverter compress					
EEV1/2	Electric expansion	n valve	4			
FAN_UP/DOWN HEAT1/HEAT2	DC fan motor Crankcase heatin	<u> </u>	-			
H PRO/L PRO	High/Low pressur	-				
H-SEN	High pressure set					
XT1	Big 4-phase termi	inal				
CT1	AC current transfe	ormer]			
RA	Reactor					
STF1/STF2	4-way valve		4			
SV5/SV6 T3/T3A	Solenoid valve Piping temperatur	na sancar	4			
	Outdoor ambient		1			
T4	sensor		4			
TP	Compressor exha sensor	iust temperature				
	Compressor return	n temperature	1			
тн	sensor		J			
SW1/SW2	Key		1			
S3	Rotary dip s	witch	1			
\$1/\$2/\$4/\$W	9 Switch]			
FS	Flow Switch		1			
	Motorized 3	3-wav				
SV1 - SV3	valve (field	-				
T2,T2B,TW-in,	•		1			
TW-out,T1,Tbt1		a cancor				
Tbt2,T5,TW2,Tsc		g 36(36(
PUMP	Variable spe	ed pump	1			
XT1	Terminal b		1			
SG	Solar energ		1			
EVU	Commercia		1			
M1/M2	Remote sw	-				
KM5 - KM11			1			
			י ר			
Temp.sensor code		ty values	4			
T2/T2B	B _{25/50} =4100K	, R _{25C} =10kΩ	4			
T1/TW_out TW_in/T5/T1B	B _{0/100} =3970K	,R _{soc} =17.6kΩ				
CN35-SMAR						

)	14	15	16	17	18	
	CODE	NAME				
CON		Inverter compres				
EEV		Electric expansio DC fan motor				
	T1/HEAT2	Crankcase heatir	191			
H_P	RO/L_PRO	High/Low pressu	re switch			
H-S		High pressure se				
XT1 CT1		Big 4-phase term AC current transf				
RA		Reactor				
	1/STF2	4-way valve				
-	/SV6	Solenoid valve				
T 3/ 1	3 A	Piping temperatu				
T4		Outdoor ambient sensor	temperature			
ТР		Compressor exha	aust temperature			
<u> </u>		sensor	n taxaa arati wa			
тн		Compressor retur sensor	n rembeismie			
				-		
	SW1/SW2	Key				
	<u>\$3</u>	Rotary dip s	witch			
S 1	/S2/S4/SW	9 Switch				
	FS	Flow Switch	ł			
	01/1 - 01/9	Motorized 3	3-way			
	SV1 - SV3	valve (field	-			
T2	,T2B,TW-in,		., **			
	-out,T1,Tbt1		e sensor			
	,T5,TW2,Tsc					
	PUMP	Variable spe	eed pump			
	XT1	Terminal b	lock			
	SG	Solar energ	ду			
	EVU	Commercia	al power			
	M1/M2	Remote sw	ritch			
K	(M5 - KM11	AC Contac	tor			
Tama	.sensor code	Bronor	ty values]		
	T2B		ty values , R _{2sc} =10kΩ			
	TZD TW_out			4		
	/_in/T5/T1B	B _{0/100} =3970K	, R _{soc} =17.6kΩ			
				-		
	CN35-SMAR	T GRID				

					_	_		
3	14		15	16	17	18	19	20
1	CODE		NAME		1			
	COMP		verter compress					
	EEV1/2		ectric expansion	valve	4			
	FAN_UP/DOW	_			-			
	H_PRO/L_PR		rankcase heating igh/Low pressure		-			
	H-SEN	_	igh pressure ser		-			
	XT1		g 4-phase termi		1			
	CT1		C current transfo	mer]			
	RA		eactor		4			
	STF1/STF2		way valve		4			
	SV5/SV6 T3/T3A		plenoid valve ping temperatur	a concor	-			
			utdoor ambient t		-			
	T4	SE	ensor		4			
	TP		ompressor exha ensor	ust temperature	2			
	T 11		ompressor return	n temperature	-			
	тн	se	insor	•				
	SW1/SW	9	Key		1			
	<u> </u>	2	Rotary dip s	witch	_			
	S1/S2/S4/S	S/V/G	Switch					
	FS	113	Flow Switch					
	10				_			
	SV1 - SV	3	Motorized 3	-				
			valve (field	supply)				
	T2,T2B,TW-							
	TW-out,T1,T		Temperature	sensor				
	T bt2, T5,TW2,							
	PUMP		Variable spe					
	XT1		Terminal b	lock				
	SG		Solar energ	-				
	EVU		Commercia	l power				
	M1/M2		Remote swi	tch				
	KM5 - KM	111	AC Contact	or				
Г	emp.sensor co	ode	Propert	y values	7			
H	T2/T2B		B _{25/50} =4100K ,	-	4			
\vdash	T1/TW_out				4			
	TW_in/T5/T		B _{o/100} =3970K	.R _{soc} =17.6kΩ	È			
1	CN35-SM	ART	RID					

CN35-SMART GRID							
Operating behavior	EVU	SG					
Increased operation	ON	ON					
output	ON	OFF					
Normal operation	OFF	ON					
Decreased operation output	OFF	off					

Serie/Series:

WSAN-YMi

Schema/Wiring Diagram:

WD-16025300005215

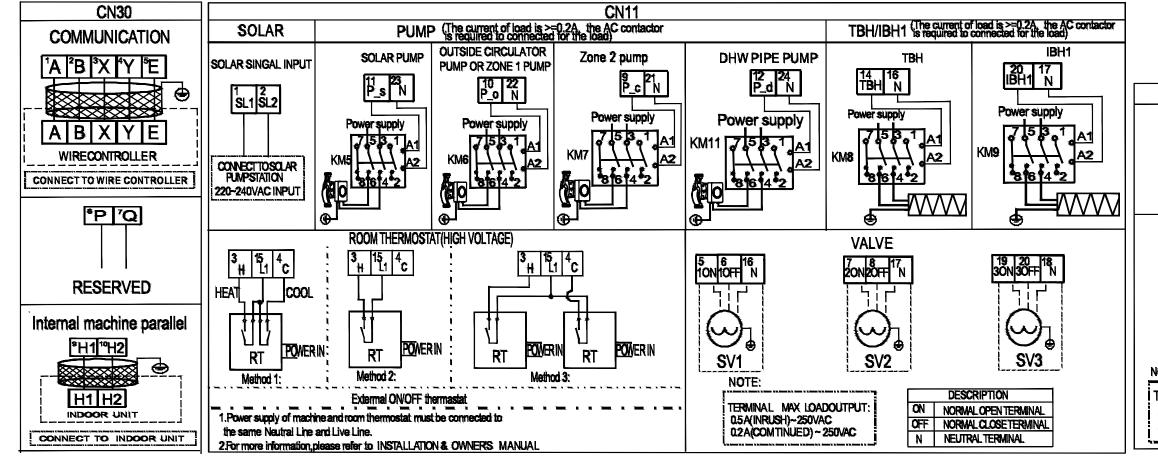
380-415V 3N~ 50Hz

Tensione/Supply:

91 - 101 - 121 - 141

Grandezza/Size	:





AGroup Company of Okidea		Serie/Series:
		WSAN-YMI
		Schema/Wiring Diagram:
Clivet: Via camp Lonc, 25 Villapaiera 32032 Feltre (BL) italy Web: www.clivet.com Email:info@clivet.it Tel.: +39 0439 3131 – Fax : +39 0439 313300		WD-16025300005215

