



AHU com

Set for connection to BMS



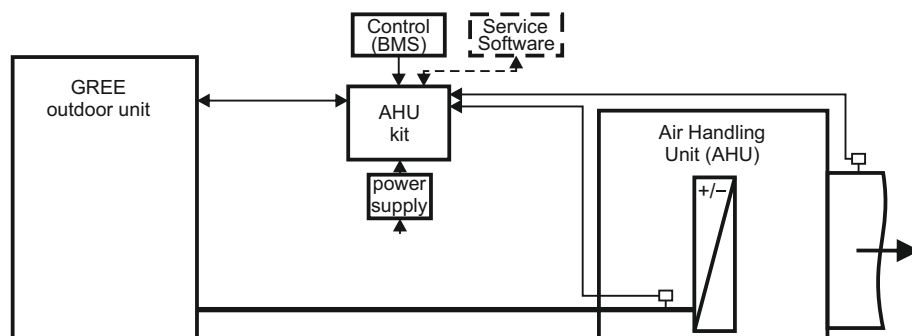
AHU com electronic communication module allows you to connect GREE brand outdoor unit from U-Match Series to any air handling units equipped with direct expansion air exchanger and drive it via any BMS control system. Communication module can control outdoor (condensing) units from GREE brand U-Match series (High Efficiency Series - GUHDxxNx3FO), which are available in range from 2,7 kW to 16 kW. More power output can be achieved with multiple outdoor units in parallel connection.

Upon complete connection, AHU com module starts receiving commands from the master control system (eg. Air handling Unit control system, BMS, etc.) and turns on outdoor unit in required mode and performance. Control signals via floating contact are On/Off, Heating/Cooling, Forced defrost. Analog signal Request Power is a DC voltage of 0 to 10V.

Ahu com module also allows users to use U-match outdoor unit as an ON/OFF appliance and to set fix speed (capacity of compressor) in range between 0-90% of the maximum capacity via integrated DIP switch. Usage of Service program Gree Text Parser secures monitoring of parameters for smooth operation.

For complete installation and service manual, please, refer to:
http://gree.at/uploads/servisni/ahu_com_1.03_installation_and_service_guide_2017_.pdf

Installation diagram:



AHU kit contents:

1. AHU com module
2. Duct type NTC10k temperature sensor
3. Pipe type temperature sensor
4. Power supply (230V AC to 12V DC)
5. USB flash disk (includes drivers, monitoring program Gree Text parser, installation guide)



Condensing units

Outdoor U-match units

Units from Gree U-Match series represent inverter heat pumps of the latest generation with environment-friendly refrigerant R410A. G10 Inverter compressors with variable speed excel in high efficiency and low acoustic pressure.

Their universality and long distance monitoring options with usage of AHU com module allow wide scope of commercial AHU applications.

Wide range of capacity from 2,7 kW to 16 kW, 380-415V or 220-240V power supply choice for GUHD36-GUHD48 units



GUHD42-48

GUHD09

For complete service manual of outdoor units, please, refer to:

http://gree.at/uploads/servisni/servisni_manual_gree_en_u-match_dc_inverter_2015.pdf

Outdoor unit parameters:

Model type		GUHD09NK3FO	GUHD12NK3FO	GUHD18NK3FO	GUHD24NK3FO	GUHD30NK3FO
Cooling capacity	kW	2,70 (0,80-3,40)	3,50 (0,90-3,90)	5,0 (1,6-5,80)	7,0 (2,20-8,50)	8,30 (2,40-8,70)
Heating capacity	kW	2,9 (0,80-3,70)	3,8 (0,90-4,10)	5,6 (1,4-6,80)	8,0 (2,40-9,50)	9,20 (2,4-9,9)
Sound pressure	dB(A)	50	52	56	57	58
SEER/SCOP		5,1/3,8	5,1/3,8	5,1/3,8	5,1/3,8	5,1/3,8
Energy class (heat./cool.)		A/A	A/A	A/A	A/A	A/A
Cooling power input	kW	0,84 (0,20-1,28)	1,17 (0,20-1,40)	1,55 (0,55-1,75)	2,18 (0,85-2,50)	2,67 (0,85-2,70)
Heating power input	kW	0,80 (0,20-1,20)	1,05 (0,22-1,20)	1,55(0,50-1,90)	2,21(0,80-2,75)	2,57(0,80-2,86)
Power supply	V/Hz	220-240/50	220-240/50	220-240/50	220-240/50	220-240/50
Dimensions (w x h x d)	mm	848x540x320	848x540x320	955x700x396	980x790x427	980x790x427
Compressor type		rotary	rotary	rotary	rotary	rotary
Piping connection (liquid/gas)	inch (mm)	1/4 (6) / 3/8 (9,52)	1/4 (6) / 3/8 (9,52)	1/4 (6) / 1/2 (12)	3/8 (9,52) / 5/8 (16)	3/8 (9,52) / 5/8 (16)
Max. length/height	m	20/15	20/15	20/15	30/15	30/15
Refrigerant		R410A	R410A	R410A	R410A	R410A
Charge	kg	1,2	1,2	1,4	2,2	2,4
Weight of unit	kg	34	34	47	67	71

Model type		GUHD36NK3FO	GUHD42NM3FO (3N)	GUHD48NM3FO (3N)	GUHD60NM3FO (3N)
Cooling capacity	kW	10,0 (3,20-11,50)	11,5 (3,60-12,50)	14,0 (6,00-14,50)	16,0(6,80-17,50)
Heating capacity	kW	12,0(2,90-14,50)	13,5(3,90-15,50)	15,5(5,20-17,00)	16,5(5,30-18,80)
Sound pressure	dB(A)	63	61	59	63
SEER/SCOP		5,1/3,8	5,1/3,8	5,1/3,8	5,1/3,8
Energy class (heat./cool.)		A/A	A/A	A/A	A/A
Cooling power input	kW	3,20 (0,70-4,50)	4	5,10(1,4-5,60)	5,60 (1,40-6,60)
Heating power input	kW	3,40 (0,70-4,60)	3,9	4,5 (1,30-5,50)	4,57(1,30-6,40)
Power supply	V/Hz	220-240/50	380-415 3N-50	380-415 3N-50	380-415 3N-50
Dimensions (w x h x d)	mm	1107x1100x440	958x1349x412	958x1349x412	1085x1365x427
Compressor type		rotary	rotary	rotary	rotary
Piping connection (liquid/gas)	inch (mm)	3/8 (9,52) / 5/8 (16)	3/8 (9,52) / 5/8 (16)	3/8 (9,52) / 5/8 (16)	3/8 (9,52) / 3/4 (18)
Max. length/height	m	30/15	50/30	50/30	50/30
Refrigerant		R410A	R410A	R410A	R410A
Charge	kg	3,5	3,7	4	5
Weight of unit	kg	92	108	114	126

Note.: All parameter values are dimensed for an appropriate duct unit (e.g. GUHD48NM3FO-GFH48K3FI)