

AMC PRO EVO FROM 9,1 TO 109,7 KW AND COMPLETE CASCADE SYSTEMS

COMMERCIAL WALL HUNG GAS CONDENSING BOILERS



+ Product

- Complete Diematic Evolution control system for multi-circuit and cascade management
 - ModBus and BacNet connectable and communicating Diematic Evolution controller
 - Compact solution for commercial solutions
 - Easy to install with our cascade kit solutions including a decoupling cylinder
 - Front access for easy, time-saving maintenance
- Compact, one-piece aluminium/silicon alloy heating exchanger
 - High performance, reduced size and weight 76kg for 115kW
 - Cascade solutions



Hydrogen ^{20%}

UP TO
 A

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Website product
page



User benefits

- Compact design
- Low noise level
- Innovative
- Optimised for the environment

With a compact footprint and low weight, they are easy to install, reducing your annual budget.

Low noise level thanks to air intake silencer

Diematic Evolution control panel: large colour screen, clear text, for system management

Low pollutant emissions with optional auto-adaptive combustion control

Compact and agile solutions for commercial systems

AMC Pro Evo was developed especially for commercial systems. Indeed, AMC Pro Evo is easily integrated thanks to our three ranges of prefabricated cascade kits with 2 to 8 boilers.

AMC PRO EVO FROM 9,1 TO 109,7 KW

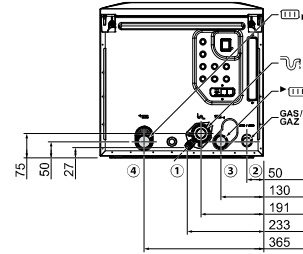
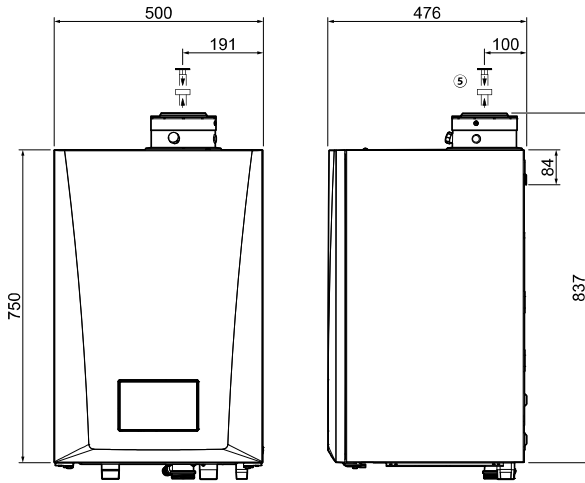
COMMERCIAL WALL HUNG GAS CONDENSING BOILERS



Boiler equipped for natural gas operation

- Possible conversion to propane (extra gas valve for 90 model)
- Natural gas supply pressure: 20/25 mbar
- Possibility of horizontal or vertical coaxial, flue or split connection
- Reduced pollutant emissions
- One-piece aluminium/silicon heat exchanger
- Stainless steel premix gas burner with interwoven metal

- fibre surface, modulating from 18 to 100 % power
- Fan with silencer on air intake
- Supplied with automatic venting, exhaust siphon
- DIEMATIC EVOLUTION: control panel with clear display for managing 3 heating circuits, one DHW circuit and one cascade
- Supplied with wired outdoor sensor



AMC PRO EVO	35/45	65/90/115
① Condensate evacuation (outside diameter)	22,5 mm	22,5 mm
② Gas inlet	R ¾"	R ¾"
③ Heating flow	R 1 ¼"	R 1 ¼"
④ Heating return	R 1 ¼"	R 1 ¼"
⑤ Ø flue gas outlet / Ø air intake (coaxial)	80/125 mm	100/150 mm

AMC PRO EVO	35	45	65	90	115	
Energy efficiency class (heating)	A	A	A	-	-	
Seasonal space heating energy efficiency (without contribution of regulation)	% 92	93	93	-	-	
Seasonal space heating energy efficiency (delivered outdoor sensor)	% 94	95	95	-	-	
Energy efficiency at ... % of nominal heat output	{ - 100 % Eta 4	% 87,8	87,5	88,5	88,2	87,4
	{ - 30 % Eta 1	% 97,6	97,6	98,1	97,3	97,3
Useful output	{ - nominal Qnom (Ph_gen)	kW 33,2	40,0	60,9	84,2	103,9
	{ - intermediate at 30 % Qnom (Pint)	kW 11,1	13,4	20,2	27,9	34,7
Nominal output	kW 34	41,2	62	86	107	
Min./max. useful output at 50/30°C	kW 9,1-35	9,1-42,4	13,5-65	15,8-89,5	21,2-109,7	
Min./max. useful output at 80/60°C	kW 8-33,2	8-40	12-60,9	14,1-84,2	18,9-103,9	
Efficiency in % LHV at load ...	{ - 100% average temperature 70°C	% 97,5	97,2	98,3	97,9	97,1
	{ - % and water temp. ...°C - 30% return temp. 30°C	% 108,4	108,4	108,9	108,1	108,0
Stand-by losses at ΔT = 30 K	W 101	101	110	123	123	
Auxiliary electrical power at Ph (without circul. pump)	W 49	71	83	111	169	
Auxiliary electrical power at Pmin	W 4	4	4	4	4	
Gas flow (15°C-1013 mbar)	{ - natural gas H	m³/h 3,5/4,1	4,3/5,0	6,5/7,5	9/10,4	11,1/12,9
	{ - propane	kg/h 2,5	3,0	4,5	6,4	8,0
Water content	l 4,3	4,3	6,4	9,4	9,4	
Minimum required water flow (fun > 75 °C)	l/h 195	195	290	340	455	
Sound power Lwa	dB(A) 52	53	55	60	59	
Sound power at 1 metre	dB(A) 42	45,1	46,7	51,6	51,1	
Net weight	kg 52	52	58	67	68	

Maximum operating temperature: 90 °C
 Maximum operating pressure: 4 bar
 Power supply: 230 V/50 Hz
 Protection index: IPX 4D for outlet connection type C
 IP 20 for outlet connection type B

NOx classification: 6
 Categoria gas: depending on country of destination
 Classification: B₂₃, B_{23P}, B₃₃, C_{13(X)}, C_{33(X)}, C_{63(X)}, C_{93(X)}, C₅₃

MODEL	35	45	65	90	115
AMC PRO EVO	Ref. 7845198	7845199	7845200	7845201	7845202

AMC PRO EVO FROM 9,1 TO 109,7 KW AND COMPLETE CASCADE SYSTEMS FOR 2 TO 8 BOILERS

COMMERCIAL WALL HUNG GAS CONDENSING BOILERS



AMC 45 to 115 cascade systems are available in 3 versions:

- LW: for wall-hung alignment of the boilers
- LV: for floor-standing alignment of the boilers
- RG: for back to back assembly of the boilers

- These systems include:
 - the decoupling cylinder
 - the boiler connection collector including the heating flow and return connection pipes Ø 65 mm, the gas connection pipes Ø 65 mm and the flanges
 - the primary injection pumps
 - the boiler connection kits including the outlet valve, the multi-function return valve (with filling and draining valve, gate valve, non-return valve, safety valve and connection for the expansion vessel), and the gas valve

- the wall assembly rail for LW versions or, for LV and RG versions, the corner support structures with the boiler assembly frame
- the outlet sensor + sensor tube and the inter-boiler BUS connection cable

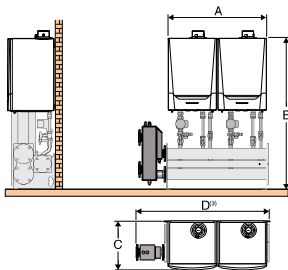
NOTA: the boilers should be ordered separately
OPTIONS:

- Insulating shells
- Connecting flanges...

"CASCADE" COMBINATIONS DEPENDING ON THE TOTAL REQUIRED OUTPUT (2)

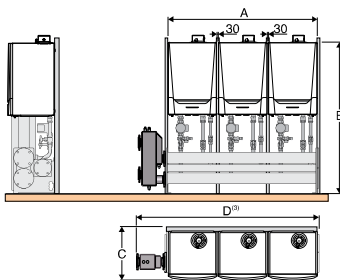
WALL-HUNG ALIGNMENT: "LW"

- 2 boilers



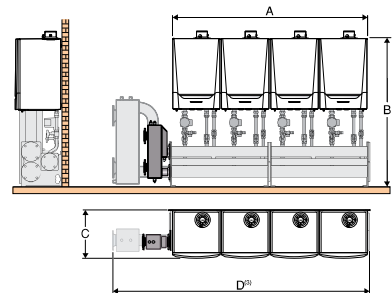
OUTPUT (80/60°C) KW	BOILER TYPE					WATER FLOW $\Delta T = 20\text{ K}$ m³/h	REF
	AMC 35	AMC 45	AMC 65	AMC 90	AMC 115		
067	2	0	0	0	0	2,91	LW.0068kW.20000
080	0	2	0	0	0	3,51	LW.0082kW.02000
122	0	0	2	0	0	5,29	LW.0123kW.00200
168	0	0	0	2	0	7,25	LW.0168kW.00020
214	0	0	0	0	2	8,94	LW.0208kW.00002

- 3 boilers



OUTPUT (80/60°C) KW	BOILER TYPE					WATER FLOW $\Delta T = 20\text{ K}$ m³/h	REF
	AMC 35	AMC 45	AMC 65	AMC 90	AMC 115		
101	3	0	0	0	0	4,36	LW.0101kW.30000
120	0	3	0	0	0	5,27	LW.0122kW.03000
183	0	0	3	0	0	7,94	LW.0185kW.00300
252	0	0	0	3	0	10,87	LW.0253kW.00030
321	0	0	0	0	3	13,41	LW.0312kW.00003

- 4 boilers



OUTPUT (80/60°C) KW	BOILER TYPE					WATER FLOW $\Delta T = 20\text{ K}$ m³/h	REF
	AMC 35	AMC 45	AMC 65	AMC 90	AMC 115		
135	4	0	0	0	0	5,82	LW.0135kW.40000
160	0	4	0	0	0	7,02	LW.0163kW.04000
244	0	0	4	0	0	10,59	LW.0246kW.00400
336	0	0	0	4	0	14,49	LW.0337kW.00040
428 (1)	0	0	0	0	4	17,88	LW.0416kW.00004

(mm)	A	B	C	D	Gas Ø DN
2 x AMC PRO EVO 35/45/65/90/115	1030	1576	550	1649	65 50
3 x AMC PRO EVO 35/45/65/90/115	1560	1576	550	2179	65 50
4 x AMC PRO EVO 35/45/65/90	2090	1576	550	2709	65 50
4 x AMC PRO EVO 115	2090	1576	550	3049	65 50

GAS

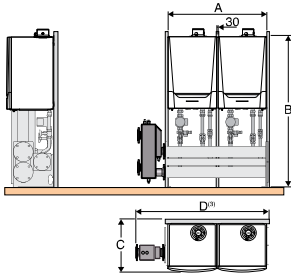
AMC PRO EVO FROM 9,1 TO 109,7 KW AND COMPLETE CASCADE SYSTEMS

COMMERCIAL WALL HUNG GAS CONDENSING BOILERS

"CASCADE" COMBINATIONS DEPENDING ON THE TOTAL REQUIRED OUTPUT (2)

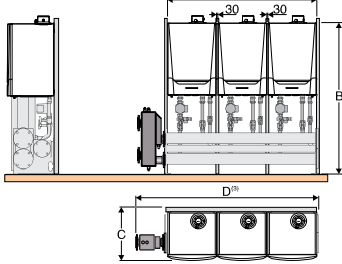
- FLOOR-STANDING ALIGNMENT: "LV":

- 2 boilers



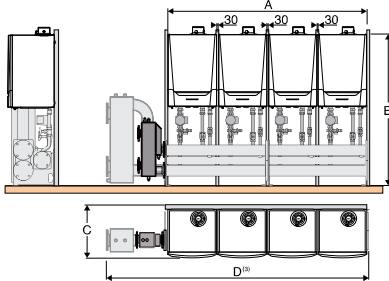
OUTPUT (80/60°C) KW	BOILER TYPE					WATER FLOW $\Delta T = 20\text{ K}$ m^3/h	REF
	AMC 35	AMC 45	AMC 65	AMC 90	AMC 115		
067	2	0	0	0	0	2,91	LV.0068kW.20000
080	0	2	0	0	0	3,51	LV.0082kW.02000
122	0	0	2	0	0	5,29	LV.0123kW.03200
168	0	0	0	2	0	7,25	LV.0168kW.00020
214	0	0	0	0	2	8,94	LV.0208kW.00002

- 3 boilers



OUTPUT (80/60°C) KW	BOILER TYPE					WATER FLOW $\Delta T = 20\text{ K}$ m^3/h	REF
	AMC 35	AMC 45	AMC 65	AMC 90	AMC 115		
101	3	0	0	0	0	4,36	LV.0101kW.30000
120	0	3	0	0	0	5,27	LV.0122kW.03000
183	0	0	3	0	0	7,94	LV.0185kW.00300
252	0	0	0	3	0	10,87	LV.0253kW.00030
321	0	0	0	0	3	13,41	LV.0312kW.00003

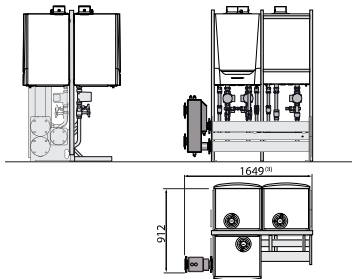
- 4 boilers



OUTPUT (80/60°C) KW	BOILER TYPE					WATER FLOW $\Delta T = 20\text{ K}$ m^3/h	REF
	AMC 35	AMC 45	AMC 65	AMC 90	AMC 115		
135	4	0	0	0	0	5,82	LV.0135kW.40000
160	0	4	0	0	0	7,02	LV.0163kW.04000
244	0	0	4	0	0	10,59	LV.0246kW.00400
336	0	0	0	4	0	14,49	LV.0337kW.00040
428 (1)	0	0	0	0	4	17,88	LV.0416kW.00004

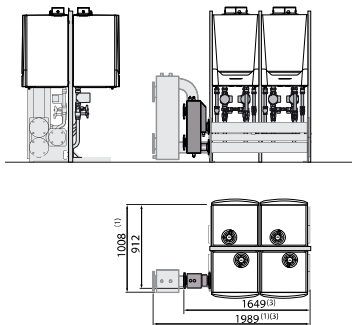
- BACK TO BACK ALIGNMENT: "RG"

- 3 boilers



OUTPUT (80/60°C) KW	BOILER TYPE					WATER FLOW $\Delta T = 20\text{ K}$ m^3/h	REF
	AMC 35	AMC 45	AMC 65	AMC 90	AMC 115		
101	3	0	0	0	0	4,36	RG.0101kW.30000
120	0	3	0	0	0	5,27	RG.0122kW.03000
183	0	0	3	0	0	7,94	RG.0185kW.00300
252	0	0	0	3	0	10,87	RG.0253kW.00030
321	0	0	0	0	3	13,41	RG.0312kW.00003

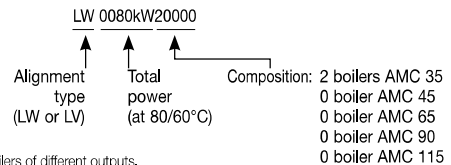
- 4 boilers



OUTPUT (80/60°C) KW	BOILER TYPE					WATER FLOW $\Delta T = 20\text{ K}$ m^3/h	REF
	AMC 35	AMC 45	AMC 65	AMC 90	AMC 115		
135	4	0	0	0	0	5,82	RG.0135kW.40000
160	0	4	0	0	0	7,02	RG.0163kW.04000
244	0	0	4	0	0	10,59	RG.0246kW.00400
336	0	0	0	4	0	14,49	RG.0337kW.00040
428 (1)	0	0	0	0	4	17,88	RG.0416kW.00004

(*) except insulating shells
 (1) with decoupling cylinder
 >350 kW
 (2) Important: boiler cascade
 of up to 1070 kW :
 consult us


Legende:
 Designation



NOTE: The "cascade" can consist of wall-mounted boilers of different outputs.

AMC PRO EVO FROM 9,1 TO 109,7 KW
 COMMERCIAL WALL HUNG GAS CONDENSING BOILERS

PACKAGING

DESIGNATION AMC PRO EVO	REFERENCE	PACKAGING		BOILER AMC PRO EVO
				
AMC PRO EVO 35	7845198	1		7845198
AMC PRO EVO 45	7845199	1		7845199
AMC PRO EVO 65	7845200	1		7845200
AMC PRO EVO 90	7845201	1		7845201
AMC PRO EVO 115	7845202	1		7845202


REF	DESIGNATION	PACKAGE	REF	DESIGNATION	PACKAGE
PACKAGING DETAIL					
7845198	AMC PRO EVO 35	-	7845201	AMC PRO EVO 90	-
7845199	AMC PRO EVO 45	-	7845202	AMC PRO EVO 115	-
7845200	AMC PRO EVO 65	-			

AMC PRO EVO FROM 9,1 TO 109,7 KW

COMMERCIAL WALL HUNG GAS CONDENSING BOILERS

REF	DESIGNATION	PACKAGE
BOILER ACCESSORIES		
	100002310 HYDRAULIC CONNECTION KIT	HC139
	100004641 RIGHT GAS TAP 3/4" AMC 45 TO 115	HC158
	100019346 DECOUPLING CYLINDER 60/60 - 1"	GV45
	100019347 DECOUPLING CYLINDER 80/60 - 1" 1/4	GV46
	100019348 DECOUPLING CYLINDER 120/80 - 2"	GV47
	7613605 CONDENSATES STATION DN1 (UNTIL 75 KW)	SA1
	7613606 WALL BRACKET FOR NEUTRALISATION STATION DN1	SA2
	7613609 CONDENSATES STATION DN 2.0 (UNTIL 450 KW)	SA3
	7613610 • BOILERS < FROM 120 TO 300 KW	SA4
	83877011 • BOILERS (CASCADES) FROM 300 TO 1300 KW	DU15
	7613613 NEUTRALIZATION GRANULES (25 KG)	SA7
	S52484 CLEANING TOOL BOILER BODY AMC 45/65	HC246
	S58286 CLEANING TOOL BOILER BODY AMC 90/115	HC247
	S100762 ADAPTER BI-FLOW 2 X Ø 80 MM	DY906
	S101626 ADAPTER BI-FLOW 2 X Ø 100 MM	DY907
	84887768 FLUE GAS ADAPTER Ø 80 TO 100 MM	DY768
	100018981 CONDENSATE COLLECTOR Ø 80/125 MM	DY916
	100018983 CONDENSATE COLLECTOR Ø 110 MM	DY917
	100018984 CONDENSATE COLLECTOR Ø 110/150 MM	DY918
	100018985 CONDENSATE COLLECTOR Ø 80 MM	DY919
	100002285 EXTERNAL AIR INLET Ø 110 MM	DY810
	7736228 ADAPTER PPS Ø 100 ON 110 MM	DY932

REF	DESIGNATION	PACKAGE
REGULATION ACCESSORIES		
DIEMATIC EVOLUTION		
	88017017 SENSOR FOR MIXING VALVE CIRCUIT	AD199
	100013305 CASCADE FLOW SENSOR OR SENSOR FOR STORAGE TANK	AD250
	100013304 PCB + SENSOR FOR MIXING VALVE	AD249
	7676561 CONTROL UNIT VM DIEMATIC EVOLUTION, WALL-MOUNTED	AD315
	7663618 S-BUS CABLE WITH PLUG 1,5 M	AD308
	7663561 S-BUS CABLE WITH PLUG 12 M	AD309
	7663619 S-BUS CABLE WITH PLUG 20 M	AD310
	88017851 MOD-BUS CABLE 12 M	AD134
	88017836 MOD-BUS CABLE 1,5 M	AD124
	7721982 COMMUNICATION GATEWAY GTW08 L-BUS-MODBUS	AD332
	7756023 COMMUNICATION GATEWAY GTW21 BACNET	-
	7688305 S-BUS PLUG	AD321

DHW PRODUCTION ACCESSORIES		
	100007827 CONNECTING KIT AMC PRO EVO / DHW CALORIFIER WITH PUMP	EA121
	100000030 DHW SENSOR	AD212

PROPANE CONVERSION KIT		
	PR7606393 PROPANE CONVERSION KIT (MODEL 90KW)	-

AMC PRO EVO FROM 9,1 TO 109,7 KW

COMMERCIAL WALL HUNG GAS CONDENSING BOILERS







REF	DESIGNATION	PACKAGE
CASCADE SYSTEMS ACCESSORIES		
	120918 MCA MOUNTING FRAME	HC248
	7866379 SUPPORT FOR MCA	-
	110966 COLLECTOR DN65 - 4 BOILERS	HC186
	110967 COLLECTOR DN65 - 3 BOILERS	HC187
	110968 COLLECTOR DN65 - 2 BOILERS	HC188
	110954 COLLECTOR DN100 - 4 BOILERS	HC191
	110960 COLLECTOR DN100 - 3 BOILERS	HC189
	110961 COLLECTOR DN100 - 2 BOILERS	HC190
	111688 WALL MOUNTING GUIDE - 2 BOILERS	HC192
	111689 WALL MOUNTING GUIDE - 3 BOILERS	HC193
	111690 WALL MOUNTING GUIDE - 4 BOILERS	HC194
	111037 REAR MOUNTING CONNECTION KIT RG	HC203
	7782946 FRONT CONNECTION KIT	-
	120842 L MCA SUPPORT	HC249
	7622699 MANIFOLD CONNECTION L	EH655
	111701 BLIND FLANGES FOR WATER COLLECTOR DN65	HC198
	111703 BLIND FLANGES FOR WATER COLLECTOR DN100	HC199
	111708 SET OF 2 PLUGS (IN LINE MOUNTING)	HC195
	114311 DECOUPLING CYLINDER DN65 < 350 KW	HC222
	111712 DECOUPLING CYLINDER DN65 > 350 AND < 460 KW	HC200
	111714 DECOUPLING CYLINDER DN100	HC201
	S101655 GAS FILTER DN50	HC255
	S101656 GAS FILTER DN65	HC256
	111698 FULL GAS FLANGE DN50	HC196
	111699 FULL GAS FLANGE DN65	HC197
	111807 ADJUSTABLE FOOT FOR COLLECTOR	HC219
	7867009 PRIMARY MODULATING PUMP PWM	-
	7630016 MODULATING PUMP (NO PWM) FOR PFC 60	SA13

REF	DESIGNATION	PACKAGE
CASCADE SYSTEMS ACCESSORIES		
	10013027 OUTPUT SENSOR + SENSOR HOLDER SUMP	HC223
	100008702 SENSOR AND SENSOR TUBE	HC206
	7663618 S-BUS CABLE 1.5 M WITH PLUG	AD308
	111788 SET OF ELBOWS Ø 65 MM	HC209
	111790 SET OF ELBOWS Ø 100 MM	HC210
	111805 EXTENSION PIPE FOR GAS FILTER Ø 50 MM	HC211
	111806 EXTENSION PIPE FOR GAS FILTER Ø 100 MM	HC212
	112632 SET OF COUNTER FLANGES TO BE WELDED Ø 65 MM	HC217
	112633 SET OF COUNTER FLANGES TO BE WELDED Ø 100 MM	HC218
	111069 COLLECTOR INSULATION	HC213
	111167 INSULATION 90° ELBOW	HC216
	122441 INSULATION FOR HYDRAULIC BOILER CONNECTION KIT	HC252
	123182 REAR INSULATION FOR HYDRAULIC BOILER CONNECTION KIT	HC243
	115269 DECOUPLING CYLINDER INSULATION < 350 KW	HC224
	111067 DECOUPLING CYLINDER INSULATION > 350 KW	HC215

GAS



AMC PRO EVO FROM 9,1 TO 109,7 KW

COMMERCIAL WALL HUNG GAS CONDENSING BOILERS

REF	DESIGNATION	PACKAGE	CONNECTION	BATTERY	TIME PROGRAM	INTERNET CONNECTION	CLASS	
THERMOSTAT AND ROOM SENSOR								
	7691375	ROOM SENSOR SMART TC* R-BUS	AD324	wire	no	yes	yes	V - VI*
	7900088	SMART CDI RF	-	wire	yes	yes	yes	VI*
	7898722	LINK WIFI GTW IOT	-	-	-	-	-	-
	7768817	ROOM THERMOSTAT	AD337	wire	yes	yes	no	IV - IV*
	7768818	ROOM THERMOSTAT	AD338	radio	yes	yes	no	IV - IV*
	85757741	OUTSIDE SENSOR	FM46	wire	no	-	no	-

* with wired outside sensor 85757741 supplied as standard

CHOICE OF OPTIONS ACCORDING TO THE CONNECTED CIRCUITS

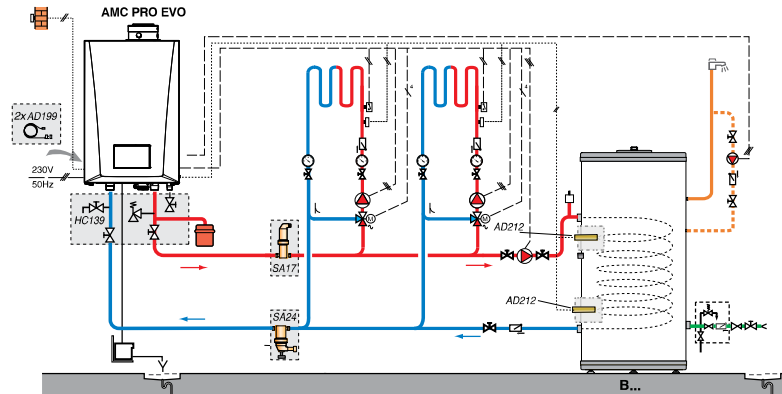
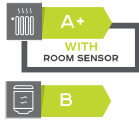
AMC PRO EVO	Circuit type	Single boiler or boiler 1 of a cascade						Boiler 2 to 8 of a cascade each additional boiler: (2)		
		DH-W	direct o	valve o	2 x valves	direct + 2 x valves	3 x valves	valve	2 x valves	3 x valves
		1 x 100000030	as standard (1)	1 x 88017017	2 x 88017017	1 x 88017017 1 x 100013304	2 x 88017017 1 x 100013304	1 x 88017017	2 x 88017017	2 x 88017017 + 1 x 100013304

(1) Each heating circuit can be completed by a remote control; (2) Cascade possible. Each boiler in the cascade can control up to 3 mixed circuits

AMC PRO EVO

AMC PRO EVO 45

Diematic Evolution



DESCRIPTION

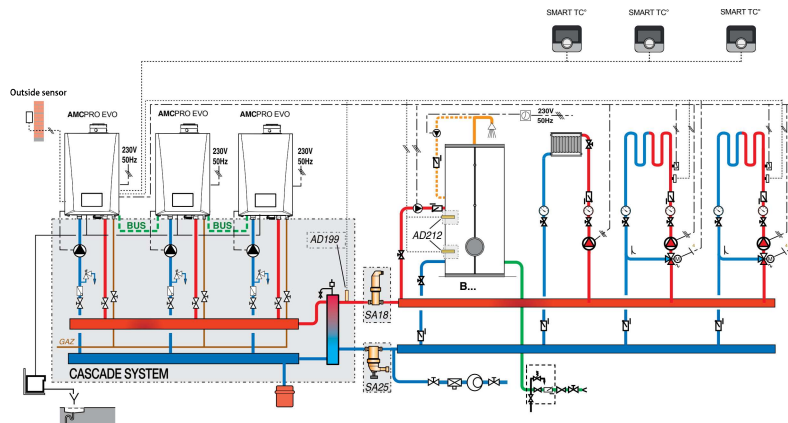
Boiler AMC PRO EVO 45		
Decoupling cylinder 60/60 - 1"		
2 x Sensor for mixing valve		
DHW calorifier BPB 401		
DHW temperature sensor		
Options		
- Hydraulic connection kit AMC PRO Evo 45		
- Primary pump		
- Microbubble degasser Rp 1"1/4		
- Sludge separator Rp 1" (3,7 m3/h)		

PACKAGE	REF
-	7845199
GV45	100019346
2 x AD199	88017017
EC790	7682199
AD212	100000030
HC139	100002310
HC147	100002323
SA17	7650330
SA24	7650376

AMC PRO EVO

AMC PRO EVO 45

Diematic Evolution



DESCRIPTION

3 x Boiler AMC PRO EVO 45		
Sensor for mixing valve		
PCB + sensor for mixing valve		
Cascade system for 3 boilers AMC 45 wall-hung alignment		
Calorifier B1000 (tank)		
Rigid casing for B1000		
DHW temperature sensor		
Options		
- Microbubble degasser Rp 1"1/2		
- Sludge separator Rp 1" 1/2 (5,0 m3/h)		

PACKAGE	REF
-	7845199
AD199	88017017
AD249	7750175
-	LW.0120kW.30000
AJ80	7650482
AJ97	7650499
AD212	100000030
SA18	7650333
SA25	7650377

Example given for information only.