

City of Portland, Maine - Building or Use Permit Application

389 Congress Street, 04101 Tel: (207) 874-8703, Fax: (207) 874-8716

Permit No: 10-1414	Issue Date:	CBL: 197 L004001
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Location of Construction: 93 WESTLAND AVE	Owner Name: MCALLISTER MARY LOUELLA	Owner Address: 93 WESTLAND AVE	Phone:
Business Name:	Contractor Name: Shawn Miles	Contractor Address: 71 Astilbe Lane Yarmouth	Phone: 2078315836
Lessee/Buyer's Name	Phone:	Permit Type: HVAC	Zone: R-5

Final Use: Single Family Home	Proposed Use: Single Family Home - Install Baxi Luna 310 Combi in basement	Permit Fee: \$60.00	Cost of Work: \$4,000.00	CEG District: 3
FIRE DEPT: <input type="checkbox"/> Approved <input checked="" type="checkbox"/> Denied <i>N/A</i>		INSPECTION: Use Group: Type: <i>SB</i> <i>Alper Gas Low</i>		

Proposed Project Description:
Install Baxi Luna 310 Combi in basement

Signature: _____ Date: _____

Signature: *[Handwritten Signature]*

PEDESTRIAN ACTIVITIES DISTRICT (P.A.D.)

Action Approved Approved w/Conditions Denied

Signature: _____ Date: _____

Permit Taken By: Idobson	Date Applied For: 11/12/2010	Zoning Approval	
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- This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules.
- Building permits do not include plumbing, septic or electrical work.
- Building permits are void if work is not started within six (6) months of the date of issuance. False information may invalidate a building permit and stop all work.

Special Zone or Reviews

Shoreland

Wetland

Flood Zone

Subdivision

Site Plan

Maj Minor MM

OK
Date: *11/19/10 ARM*

Zoning Appeal

Variance

Miscellaneous

Conditional Use

Interpretation

Approved

Denied

Date: _____

Historic Preservation

Not in District or Landmark

Does Not Require Review

Requires Review

Approved

Approved w/Conditions

Denied

Date: *[Handwritten Signature]*

PERMIT ISSUED

NOV 19 2010

City of Portland

CERTIFICATION

I hereby certify that I am the owner of record of the named property, or that the proposed work is authorized by the owner of record and that I have been authorized by the owner to make this application as his authorized agent and I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in the application is issued, I certify that the code official's authorized representative shall have the authority to enter all areas covered by such permit at any reasonable hour to enforce the provision of the code(s) applicable to such permit.

SIGNATURE OF APPLICANT

ADDRESS

DATE

PHONE

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Business Name:	Contractor Name: Shawn Miles	Contractor Address: 71 Astilbe Lane Yarmouth	Phone: (207) 831-5836
Lessee/Buyer's Name	Phone:	Permit Type: HVAC	

Proposed Use: Single Family Home - Install Baxi Luna 310 Combi in basement	Proposed Project Description: Install Baxi Luna 310 Combi in basement
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Dept: Zoning Status: Approved Reviewer: Ann Machado Approval Date: 11/15/2010
 Note: Ok to Issue:

Dept: Building Status: Approved with Conditions Reviewer: Jonathan Rioux Approval Date: 11/19/2010
 Note: Ok to Issue:

- 1) Application approval based upon information provided by applicant. Any deviation from approved plans requires separate review and approval prior to work.
- 2) The installation must comply with the State of Maine Gas Regulations.

PERMIT ISSUED

NOV 19 2010

City of Portland



FILL IN AND SIGN WITH INK

PERMIT ISSUED

APPLICATION FOR PERMIT HEATING OR POWER EQUIPMENT

NOV 19 2010

City of Portland

To the INSPECTOR OF BUILDINGS, PORTLAND, ME.

The undersigned hereby applies for a permit to install the following heating, cooking or power equipment in accordance with the Laws of Maine, the Building Code of the City of Portland, and the following specifications:

Location / CBL 93 Westland Ave 177 L 4 Use of Building Single family Date 11/12/10

Name and address of owner of appliance Chad Thompson
93 Westland Ave Portland, ME 04102

Installer's name and address Shawn Miles
24 Westville 71 Ashville Ln Yarmouth, ME 04096 Telephone (207) 831-5836

Location of appliance:

- Basement
- Floor
- Attic
- Roof

Type of Fuel:

- Gas
- Oil
- Solid

Appliance Name: Baxi Luna 310 Combi

U.L. Approved Yes No

Will appliance be installed in accordance with the manufacturer's installation instructions? Yes No

IF NO Explain: RECEIVED

The Type of License of Installer: NOV 12 2010

- Master Plumber # _____
- Solid Fuel # Dept. of Building Inspections
City of Portland-Maine
- Oil # _____
- Gas # PNT4692
- Other _____

Type of Chimney:

- Masonry Lined
- Factory built _____

- Metal
- Factory Built U.L. Listing # _____

Direct Vent
Type Coaxial dual flue U.L.
tube

Type of Fuel Tank

- Oil
- Gas

Size of Tank 2 120 gal

Number of Tanks 2

Distance from Tank to Center of Flame _____ feet.

Cost of Work: \$ 4000.00

Permit Fee: \$ 60.00

Approved

Fire: _____

Ele.: _____

Bldg.: _____

Signature of Installer Shawn Miles

Approved with Conditions

- See attached letter or requirement.

Inspector's Signature _____

Date Approved _____

LUNA BLUE

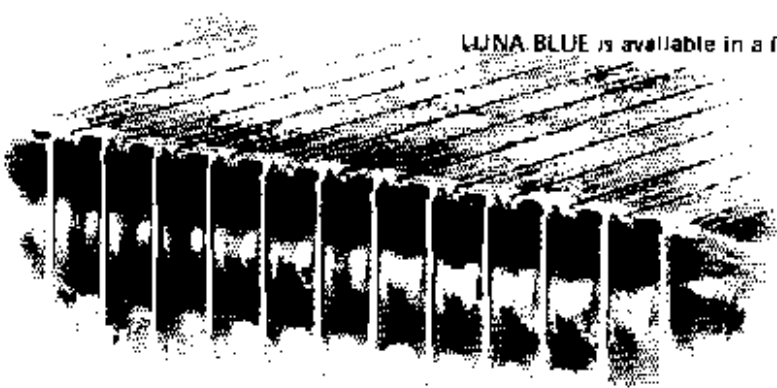
Low emissions for a better future

LUNA BLUE is the environmentally friendly wall hung boiler

distinguished by a special water refrigerated burner which

is reducing NOx emissions.

LUNA BLUE is available in a full range to fulfill any installation need.



low emissions easy solution wide range of models

- *** Energetic efficiency (DIR C.L.P.92/42): 24 kW, fan fired flue models
- Reduced NOx emissions thanks to water refrigerated LOW NOx burner
- Electric 3 port brass diverter valve: full anti-frost device and easy connection to indirect cylinders (heating models)
- Constant efficiency at over 90% for all heat inputs (fan fired flue models)
- BAXI patented AFR system for efficiency optimization (fan fired flue models)
- Two heating temperature possible ranges: 30/85°C, 30/45°C
- Remote controller option
- Outdoor probe option

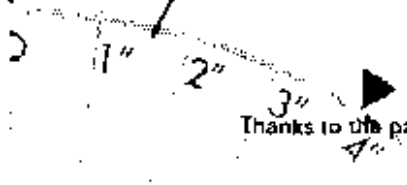
	COMBI				HEATING ONLY		
	FAN FIED FLUE		OPEN FLUE		FAN FIED FLUE	OPEN FLUE	
	LUNA BLUE 2000	LUNA BLUE 2400	LUNA BLUE 2400	LUNA BLUE 1800	LUNA BLUE 12000	LUNA BLUE 11000	
Maximum heat input (nominal)	kW	31.3	26.3	28.3	19.4	26.3	19.4
Minimum heat input	kW	11.9	19.8	19.8	10.6	11.9	10.6
Maximum heat output (nominal)	kW	28	24	24	17.6	24	17.6
Maximum heat output	kW	19.7	16.7	16.4	9.1	10.7	9.3
Maximum efficiency (nominal)	%	90.3	91.7	90.3	91.3	91.7	90.3
Legislat. efficiency (EN CE/92/42)	η _{ns}	89.8	91.4	89	90	90.8	89
Efficiency winter ¹⁾	η _{ns}	89.5	91.2	89.5	90.5	90.8	89.5
Heating system maximum pressure	bar	3					
Regulation of heat temperature in DHW system	°C	35/65	35/65	35/65	35/65	-	-
DHW production at 25°C	l/min	16	13.7	13.7	10	-	-
DHW production at 35°C	l/min	11.4	9.6	9.6	7.1	-	-
Minimum capacity DHW heater kit	l/min	2.5	2.5	2.5	2.5	-	-
Maximum pressure on DHW system	bar	0.2	0.2	0.2	0.2	-	-
Maximum pressure on DHW system	bar	0	0	0	0	-	-
Dimensions H x W x D	mm	700x450x145	700x500x145	800x450x145	800x500x145	600x500x145	600x500x145
Flue tube	Ø mm	-	-	130	110	-	-
Cupboard max. size	Ø mm	80-100/80	80-100/80	-	-	60-100/80	-
Gas type		methane/LPG	methane/LPG	methane/LPG	methane/LPG	methane/LPG	methane/LPG
Grade of protection		IPX0	IPX0	IPX0	IPX0	IPX0	IPX0

¹⁾ with 45°C preheating

BAXI GAS WALL HUNG BOILERS

LUNA MAX

Patented speed... hot water in 4"



Thanks to the patented expansion vessel with integrated storage tank, Luna max is able to deliver immediate hot sanitary water (in 4"). Luna max has been designed for ensuring the maximum saving in time, water and gas.

higher comfort DHW up to 18 lt solution patented by BAXI

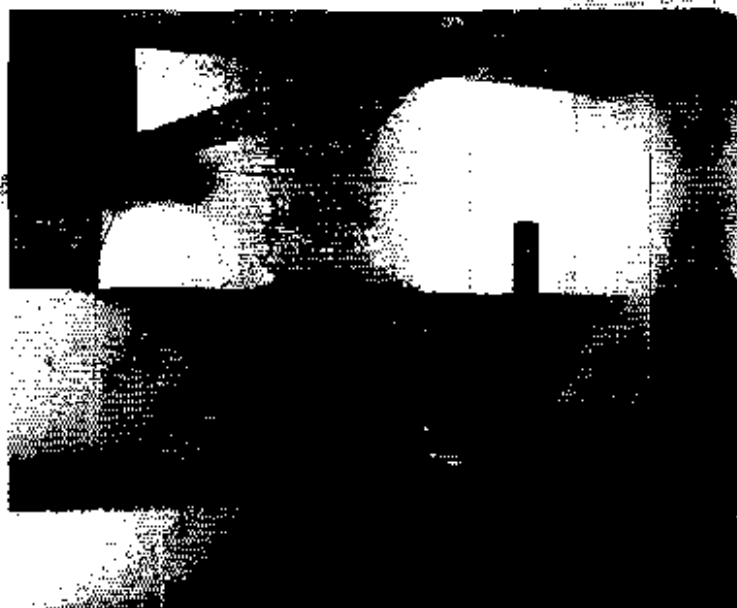
- Expansion vessel with integrated storage tank patented BAXI
- Electronic gradual ignition and flame modulation
- BAXI patented AFR system for efficiency optimization (D10F, 240F)
- Outdoor probe option
- Full anti-frost device
- Two heating temperature possible ranges: 30/55°C, 30/45°C
- System to prevent pump and diverter valve sticking operating every 24 hours

		FANNED FLUE		OPEN FLUE
		MINI 10L2300	MAXI 10L2340	10L2345
Maximum heat input (nominal)	kW	24.3	28.3	26.3
Minimum heat input	kW	11.8	10.6	10.6
Minimum heat output (nominal)	kW	37	24	34
Minimum heat output	kW	10.4	9.3	9.3
Maximum efficiency (nominal)	%	90.6	91.2	91.2
Efficiency at 30% capacity	%	88.3	87.9	87.6
Expansion vessel nominal capacity	l	11.5	11.5	11.5
Expansion vessel capacity	l	3.5	3.6	3.5
Boiling system max. pressure	bar	3	3	3
Regulation of DHW temperature	°C	35/65	35/65	35/65
Continuous DHW production at 45°C	l/min	1.8	11.7	11.1
Continuous DHW production at 35°C	l/min	12.7	9.8	9.8
Minimum capacity DHW flow rate	l/min	2.5	2.5	2.5
Minimum pressure on DHW system	bar	0.2	0.2	0.2
Maximum pressure on DHW system	bar	8	8	8
Dimensions (h x w x d)	mm	750x450x345	760x450x345	800x450x345
Flue tube	Ø mm	-	-	120
Condensate drain tube	Ø mm	80-100/80	80-100/80	-
Gas type		Methane/LPG	Methane/LPG	Methane/LPG
Grade of protection		IPX5D	IPX5D	IPX5D

BAXI

ECO³

Compact evolution



Eco³ has been specially designed to ensure the maximum space saving. Thanks to the special flue system, Eco³ will easily fit everywhere: the room required for the installation is considerably reduced compared to a traditional compact boiler. The easiness of installation ensured also by the short distance of the hydraulic connections (12 cm) from the wall.

innovative LCD display easiness of use wide range of models

- Full anti-frost option
- Built-in electric 3 port valve (combi models)
- DHW stainless steel plates exchange
- Brass made hydraulic group
- Outdoor probe option
- Electronic gradual ignition and flame modulation
- Electronic temperature control by two NTC probes
- System to prevent pump and electric 3 port valve sticking operating every 24 hours

- Two heating temperatures possible ranges: 30-85°C and 30-45°C

	COMBI		HEATING ONLY			
	FANNED FLUE	OPEN FLUE	FANNED FLUE		OPEN FLUE	
	kW/100H	kW/200H	kW/100H	kW/150H	kW/120H	kW/150H
Minimum input (normal)	16.3	25.3	20.3	15.4	25.3	15.4
Minimum heat input	19.8	19.8	19.8	7	19.8	7
Maximum heat output (cycling)	14	24	24	14	24	14
Minimum heat output	8.3	8.3	8.3	8	8.3	8
Maximum efficiency (normal)	91.2	91.2	91.2	91.2	91.2	91.2
Efficiency at 50% capacity	88.7	88	88.7	88.7	88	88
Sealed combustion chamber	-	-	-	-	-	-
Expansion vessel	1/2bar	2/3	1/2	1/2	2/3	2/3
Maximum system max. pressure	bar	-	-	-	-	-
Regulation of water temperature in heating circuit	°C	30/80	30/80	30/80/85	30/80	30/85/90/85
Regulation of water temperature in DHW circuit	°C	35/55	35/55	35/55	35/55	35/55/55/55
Combustion domestic hot water production ΔT 20°C l/min	13.7	12.7	-	-	-	-
Combustion domestic hot water production ΔT 30°C l/min	8.8	8.8	-	-	-	-
Minimum capacity DHW flow rate	l/min	2.5	-	-	-	-
Minimum pressure of DHW system	bar	0.2	-	-	-	-
Maximum pressure of DHW circuit	bar	8	-	-	-	-
Dimensions:						
height	mm	730	730	730	730	730
width	mm	460	460	460	460	460
depth	mm	317	317	317	317	317
Flue tube	Ø mm	130	130	120	120	120
Connectional tube	Ø mm	50-100/80	50-100/80	50-100/80	50-100/80	50-100/80
IPX1 test		Methanol, PG	Methanol, PG	Methanol, PG	Methanol, PG	Methanol, PG
IPX2 protection		IPX4D	IPX4D	IPX4D	IPX4D	IPX4D

BAXI GAS WALL HUNG BOILERS

MAIN

Ultra compact dimensions



MAIN is distinguished by the ultra compact dimensions (only 32 x 40 x 73 cm), ease of installation and smart design. MAIN is supplied with antiscala electronic system and a special control panel enabling to detect the main boiler's anomalies.

compact size

antiscala electronic system

easy self-check

- New flue system for a further space saving (45° flue outlet)
- Electronic gradual ignition and flame modulation
- Antiscala electronic system / anti-frost device
- Special control panel to easily detect boiler's anomalies

- Independent heating / DHW temperature regulation
- Bi-thermal rapid heat exchanger
- Air control patented AFR system
- System to prevent pump sucking operating every 24 hours

		FANNED FLUE		OPEN FLUE	
		Max kW	Min kW	Max kW	Min kW
Maximum heat input (Nominal)	kW	26.3	26.3	26.3	26.3
Minimum heat input	kW	10.6	10.6	10.6	10.6
Maximum heat output (Nominal)	kW	24	24	24	24
Minimum heat output	kW	9.3	9.3	9.3	9.3
Maximum efficiency (Nominal)	%	91.1	90.5	90.5	90.5
Efficiency at 50% capacity	%	88.7	88	88	88
Expansion vessel	litre	6/0.5	7/0.5	7/0.5	7/0.5
Heating system max. overpressure	bar	3	3	3	3
Purification of water temperature in DHW circuit	°C	35/55	35/55	35/55	35/55
Continuous (average) hot water production at 50°C	litre/h	12.7	12.7	12.7	12.7
Continuous maximum hot water production at 50°C	litre/h	9.8	9.8	9.8	9.8
Minimum capacity DHW flow rate	litre/h	2.5	2.5	2.5	2.5
Minimum pressure on DHW system	bar	0.2	0.2	0.2	0.2
Maximum pressure on DHW circuit	bar	8	8	8	8
Dimensions (h x w x d)	mm	730x400x117	730x400x117	730x400x117	730x400x117
Flue tube	Ø mm	-	-	120	120
Control / fuel gas tube	Ø mm	Ø3-100/90	Ø3-100/90	-	-
Gas type		MethaneLPG	MethaneLPG	MethaneLPG	MethaneLPG
Grade of protection		IPX4D	IPX4D	IPX4D	IPX4D

NUVOLA

Best in class in hot water



The ideal solution for any domestic hot water needs:

Nuvola, BAXI gas storage boiler.

Thanks to the 60 lt stainless steel AISI 316L cylinder,

NUVOLA can deliver large amounts of hot water,

without waiting time.

450 lt in 30'

immediate hot water

innovative electronics

- Electronic gradual ignition and flame modulation
- Patented AFR system (Nuvola Fil)
- Electric 3 port diverter valve
- Remote controller BAXI by Siemens option
- Two heating temperature possible ranges: 30/85°C, 30/55°C

- Outdoor probe / DHW - needs timer option
- System to prevent pump / diverter valve sticking operating every 24 hours
- Full anti-frost device
- 10 led temperature / status / fault diagnosis display

		FANDED FLUE		OPEN FLUE	
		NUVOLA 2000	NUVOLA 2400	NUVOLA 2800	NUVOLA 3200
Maximum heat input (kW)	kW	31.7	37.1	31.1	37.1
Maximum heat input (Btu/hr)	Btu/hr	108,000	125,000	106,000	125,000
Maximum heat output (Btu/hr)	Btu/hr	29,000	34,000	29,000	34,000
Maximum heat output (kW)	kW	8.4	10.0	8.4	10.0
Maximum efficiency (Btu/hr)	%	80.5	81	80.5	81.2
Efficiency at 30% capacity	%	87.9	87.8	88.1	87.8
Max. operating temperature with anti-frost device	°C	4	4	4	4
Operating pressure	bar	7.5/0.5	7.5/0.5	7.5/0.5	7.5/0.5
Heating system maximum pressure	bar	3	3	3	3
Regulator of water temperature in the cylinder	°C	5/80	5/80	5/80	5/80
Specific flow	l/min	19	18.7	18	18.2
Cylinder recovery maximum time	min	4	4	4	4
Maximum pressure on DHW outlet	bar	8	8	8	8
Ultrastrong B.A.S.A.®	mm	250/250/40	300/300/40	300/300/40	300/300/40
Overall / clear height	mm	80-100/80	80-100/80	140	140
Gas type		Natural / LPG	Natural / LPG	Natural / LPG	Natural / LPG
Grade of protection		IPX0	IPX0	IPX0	IPX0

Model no. in LPG version

* according to EN 603

BAXI

PRIME HT

Highest efficiency, maximum in comfort and easiest in use



Prime HT is the new Baxi wall hung condensing range especially designed to offer all you can expect from a condensing boiler ensuring class A high efficiency*, easiness of use, compact dimensions (760 x 450 x 345).
Prime HT is available in a wide range of models with output up to 33 kW.

*SECURUK UK

high efficiency class A* environmentally friendly low noise level

- Stainless steel heat exchanger with sound proofing external casing
- Pre-mixing group including modulating fan
- Electric 3 port valve for all models
- Innovative electronics / remote controller / outdoor probe option
- User friendly control panel / digital display
- System to prevent pump sticking operating every 24 hours
- Full anti-frost device

	COMBI		COMBI WITH STORAGE		HEATING ONLY	
	PRIME HT 230	PRIME HT 250	PRIME STORAGE 230	PRIME HT 250	PRIME HT 1.800	PRIME HT 1.120
Maximum CWHP heat output	kW	23	25	24	24	24
Maximum Heating heat output 75/50°C	kW	28	24	24	28	24
Maximum Heating heat output 50/30°C	kW	30.3	25.9	25.8	30.3	25.9
Minimum flow delivery 15/50°C	kW	3.4	3.7	4.4	3.4	3.3
Minimum flow output 12/30°C	kW	10.2	9.5	7.4	10.2	7.4
Energy efficiency (EN CEAS/14)	class	A++	A++	A++	A++	A++
Normal efficiency (EN 50423 EN 15242)	%	107.5	107.5	107.5	107.5	107.5
High efficiency (EN 15242)	%	108.8	108.8	108.8	108.8	108.8
Equivalent weight	kg	100.5	101.5	7.500.5	100.5	100.5
Maximum pressure on heating circuit	bar	3	3	3	3	3
Maximum circuit temperature (°C)	°C	25/90	25/90	25/90	25/90	25/90
Minimum flow water temperature (°C)	°C	25/90	25/90	18/90	25/90	25/90
Cylinder capacity	l	-	-	45	-	-
Continuous water production @ 25°C	l/min	19	18	14.4	-	-
DHW production @ 25°C	l/h	-	-	80	600/600*	420/420*
Maximum hot water (DHW) tank	dm	8	8	8	-	-
Cylinder capacity maximum time	h	-	-	8	-	-
Control system (DHW) max length	m	-	-	10	-	-
Dual flow system (DHW) max length	m	-	-	80	-	-
Temperature (DHW) °C	°C	75/60/50/345	75/60/50/345	65/60/50/60/60	75/60/50/345	75/60/50/345
Maximum flow static flow rate	kg/s	0.014	0.016	0.012	0.006	0.014
Maximum flow static flow rate	kg/s	0.004	0.006	0.003	0.003	0.006
Maximum flow temperature	°C	75	75	72	72	75
Max. Loss	kg/s	-	-	5	-	-
Gas type		Metano/LPG	Metano/LPG	Metano/LPG	Metano/LPG	Metano/LPG
Grade of protection		IPX3D	IPX3D	IPX3D	IPX3D	IPX3D

* with 80/120 cylinder * without flow restrictor

BAXI ELECTRIC BOILERS

AMPTEC

*The alternative central heating
Ampotec electric boiler*



Ampotec electric boiler can be installed where there is no gas supply and wherever there is mains electricity.

It is sized to efficiently meet a wide range of different needs, with outputs from 4 to 12 kW designed to match the rating of existing domestic electrical supplies. For higher outputs, Ampotec boilers can be installed in cascade to meet greater demands.

powerful and high efficient small and light clean and environmentally friendly

- Compact and linear design
- 99.8% efficiency
- Simple installation: no flue required
- Dry board micro energy management system
- Silent in operation
- Re-settable thermal safety cut out
- Variable temperature output between 65°C and 80°C
- Available also underfloor models

		4kW/100l	6kW/150l	8kW/200l	10kW/250l	12kW/300l
Minimum flow output	litre	4	6	8	10	12
Efficiency	%	99.8	99.8	99.8	99.8	99.8
Domestic heating output (at 65°C)	litre	10-40	15-50	20-60	25-80	30-90
Domestic heating output (at 80°C)	litre	10-40	15-50	20-60	25-80	30-90
Domestic heating output (at 90°C)	litre	10-40	15-50	20-60	25-80	30-90
Domestic heating output (at 100°C)	litre	10-40	15-50	20-60	25-80	30-90
Weight	kg	10	15	20	25	30
Height	mm	41	41	41	41	41
Max height (with 12kW)	mm	41	41	41	41	41