



















FCZI-H

Fan coil with the photocatalytic device, for universal and floor installation



- Photocatalytic device
- Tested effectiveness against viruses, bacteria and allergens
- Active against the SARS-CoV-2 virus, even on surfaces
- Certifications VDI 6022







DESCRIPTION

Fan coil with built-in **photocatalytic device**.

Active against the airborne Sars-CoV-2 virus (95%-99% abatement efficacy after 20 minutes of operation tested at the Virostatics laboratory in Alghero).

Active against the SARS-CoV-2 virus, even on surfaces - 84% effectiveness after 12 h (tests carried out in collaboration with the Department of Microbiology of the University of Padua).

Suitable for air conditioning in places requiring optimum hygiene levels, such as:

- Hospitals
- Dentists' surgeries
- Doctors' and vets' surgeries
- Analysis laboratories
- Waiting rooms
- Public premises

They can be installed in any type of 2-pipe system (version for 4-pipe systems available upon request) and in combination with any heat generator, even at low temperatures. Thanks to the availability of several versions and configurations, it's easy to find the right solution for every need.

VERSIONS

- H Unit with shell without thermostat vertical and horizontal installation.
- HP Unit without shell and without thermostat vertical and horizontal installation.
- HT Unit with shell and thermostat vertical installation.

FEATURES

Case

Metallic protective cabinet with rustproofing polyester paint RAL 9003. The head with adjustable air distribution grille is made of plastic RAL 7047. When the grille closes, the fan coil automatically switches off.

Ventilation group

Comprised of a dual intake centrifugal fan that is particularly silent, statically and dynamically balanced and directly coupled to the motor shaft.

The Brushless electric motor with 0-100% continuous speed variation, which allows precise adaptation to the real demands of the internal environment without temperature fluctuations.

Continuous air flow rate variation is made possible by a 0-10V signal generated by Aermec adjustment and control commands or by independent regulation systems.

This lowers noise and generates a better response to heat loads and a higher stability in the desired temperature inside the room.

The high efficiency even with low speed, makes it possible to reduce power consumption (more than 50% less than fan coils with traditional motors). The scroll that protects the fan can be extracted and inspected, for easy and effective cleaning.

Apart from the brushless motor, each unit can also be supplied with a single-phase asynchronous motor. Refer to the relative FCZ - H datasheet

Finned pack heat exchanger

With copper pipes and aluminium louvers, the main heat exchanger has female gas water connections on the left side and the manifolds have air vents.

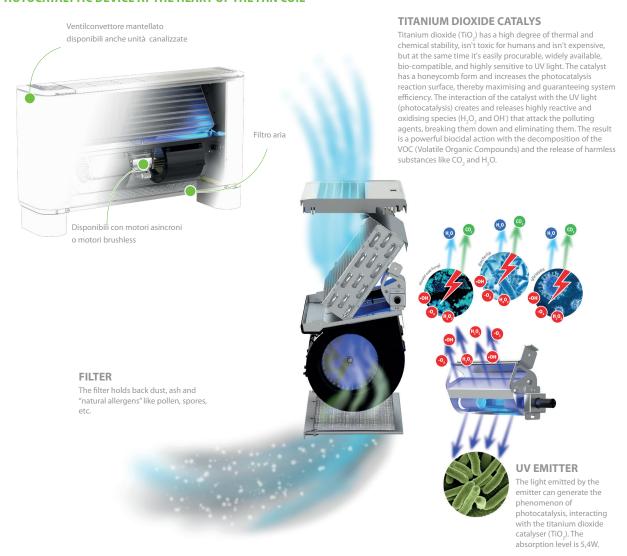
The coil is not suitable for use in corrosive atmosphere or in environments where aluminium may be subject to corrosion.

The coil is not reversible during installation but, when ordering, you can choose units with the coil water connections on the right (at no extra charge).

Air filter

Air filter class **COARSE 25%** for all versions; easy to pull out and clean. Shrouds can be pulled out and inspected for easy and effective cleaning.

PHOTOCATALYTIC DEVICE AT THE HEART OF THE FAN COIL



GUIDE TO SELECTING THE POSSIBLE CONFIGURATIONS

Field	Description
1,2,3,4	FCZI
5	Size 2, 3, 4, 5, 7, 9
6	main heat exchanger
0	Standard
5	Oversized
7	Secondary heat exchanger
0	Without coil
8	Version
Н	Unit with shell without thermostat - vertical and horizontal mount
HP	Unit without shell and thermostat - vertical and horizontal mount
HPR	Unit without shell and thermostat - vertical and horizontal installation - water connections on the right
HR	Unit with shell without thermostat - vertical and horizontal installation - water connections on the right
HT	Unit with shell with thermostat - vertical mount
HTR	Unit with shell with thermostat - vertical mount - water connections on the right

ACCESSORIES

Control panels and dedicated accessories - FCZI-H

AER503IR: Flush-mounting thermostat with backlit display, capacitive keypad and infrared receiver, for controlling both brushless fan coils and those with an asynchronous motor. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices (Cold Plasma and germicidal lamp), with radiant plate or with FCZ-D twin delivery (Dualjet). In addition, it can control systems with radiant panels or mixed (fan coil and radiant floor) systems. Being equipped with an infrared receiver, it can, in turn, be controlled by the VMF-IR remote control. PRO503: Wall box for AER503IR and VMF-E4 thermostats.

SA5: air probe kit (L = 15 m) with probe-locking cable grommet.

SW3: Water probe (L = 2.5 m) for controlling the minimum and maximum and to allow automatic seasonal switching for electronic thermostats fitted with water side changeover.

SW5: water probe kit (L = 15m) with probe-holder connection point, fixing clip and probe-holder from heat exchanger.

TX: Wall-mounting thermostat for controlling either brushless fan coils or those with asynchronous motors for 2/4 pipe. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices, radiant plate or FCZ-D twin delivery (Du-

DI24: Flush-mounted interface (503 box) with 2.4" touch screen display to be combined with VMF-E19, VMF-E19I accessories. It allows you to regulate and monitor the temperature inside rooms precisely and on time; in addition to accessing and interacting with your system's operating information, parameters and alarms, it allows you to set time slots. Thanks to its Wi-Fi connection, DI24 in combination with the AerSuite APP (available for Android and iOS) can also be remotely controlled. All programming and most functions are done in a simple and intuitive way using the APP. To allow for customization of the interface so that it seamlessly integrates with the style of any home, DI24 is compatible with switch plates from major brands available on the market. For more information, please refer to our documentation. However, a switch plate with its graphite gray support, DI24CP, is also available as a separate accessory in our catalog.

VMF-E19I: Thermostat for inverter unit to be fixed on the side of the fan coil, fitted as standard with an air and water probe.

VMF-E2Z: User interface on the machine, to be combined with the VMF-E19 and VMF-E19I accessory.

VMF-E3: Wall mounted user interface, to be combined with accessories VMF-E19, VMF-E19I, with grids GLF_N/M and GLL_N, can be controlled with VMF-IR control.

VMF-E4DX: Wall-mounted user interface. Grey front panel PANTONE 425C

VMF-E4X: Wall-mounted user interface. Light grey front panel PANTONE COOL GRAY 1C.

VMF-IO: Manage the unit exclusively from a centralized VMF control panel without area control panel.

VMF-IR: User interface compatible with the AER503IR, VMF-E3 thermostat and with all the grids of cassettes equipped with the infrared receiver compatible with the VMF system.

VMF-LON: Expansion allowing the thermostat to interface with BMS systems that use the LON protocol.

VMF-SW1: Additional water probe (L = 2.5m) to be used if required for 4-pipe systems with the VMF-E19 and VMF-E19I thermostats for maximum control in the cold range

VMHI: The VMHI panel can be used as a user interface for VMF-E19/E19I thermostats, GLFxN/M or GLLxN grids, or as an interface for the MZC system. What determines the function to be performed by the user interface is determined by its correct parametrisation and by following the electrical connections between interface and thermostat or interface and plenum.

VMF system

The fan coil can also be teamed up with the VMF system; please contact headquarters about compatibility with the various system components.

Common accessories

VCZ: 3-way motorised valve kit for the main coil. The kit is made up of a valve with its insulating shell, actuator and relative hydraulic fittings. It can be installed on fan coils with both right and left connections. If the valve is combined with the BCZ5 or BCZ6 condensate drain pan, to ensure a better housing it is possible to remove the insulating shell.

VCZD: 2-way motorised valve kit. The kit consists of a valve, an actuator and the relative pipe fittings. It can be installed on fan coils with both right and left connections.

VJP: Control and balancing combination valve for 2 and 4 pipe systems to install outside the unit.

AMP: Wall mounting kit

DSC: Condensate drainage device.

BCZ: Condensate drip. If the valve is paired with the BCZ5 or BCZ6 condensate drip tray, the insulating shell can be removed to ensure better housing. PCZ: Metal panel for the unit rear closing. SPCZ brackets are necessary to fix floor standing fan coils.

GA: Lower intake grille for encapsulated fan coils. Can also be used in wall-mounted or floor installations, the FIKIT accessory is needed only in the case of floor installation.

FIKIT: Metal supports for vertical installation of the GA grille.

ZXZ: Pair of stylish and structural feet

BC: Condensate drip.

Ventilcassaforma: Galvanised sheet metal template. It makes it possible to obtain directly in the wall a space for housing the fan coil.

3

SPCZ: Brackets to fix the fan coil to the floor.

ACCESSORIES COMPATIBILITY

Control panels and dedicated accessories

Model	Ver	200	250	300	350	400	450	500
AER503IR (1)	H,HP	•	•	•	•	•	•	•
PR0503	H,HP	•	•	•	•	•	•	•
SA5 (2)	H,HP	•	•	•	•		•	
SW3 (2)	H,HP,HT	•	•	•	•	•	•	
CML (3)	H,HP	•	•	•	•	•	•	
/5 (2)	HT		•		•		•	
TX (3)	H,HP,HT	•	•	•	•	•	•	•
Model	Ver	550		700	750	900		950
AER503IR (1)	H,HP			•	•			•
	11/111							
PR0503	H,HP	•		•	•	•		•
	· · · · · · · · · · · · · · · · · · ·			•				•
SA5 (2)	H,HP	•			•	•		
SA5 (2) SW3 (2)	H,HP H,HP	•			•	•		•
SA5 (2)	Н,НР Н,НР Н,НР,НТ	•			•	•		•

⁽¹⁾ Wall-mount installation

(1) Wall-mountings. If the unit intake exceeds 0.7A, or several units need to be managed with a single thermostat, board SIT3 and/or SIT5 is required.

(3) Wall-mounting. If the unit intake exceeds 0.7A, or several units need to be managed with a single thermostat, board SIT3 and/or SIT5 is required.

Model	Ver	200	250	300	350	400	450	500	550	700	750	900	950
DI24	H.HP	•	•	•	•	•	•	•	•	•	•	•	•

Model	Ver	200	250	300	350	400	450	500	550	700	750	900	950
VMF-E19I (1)	H,HP	•	•	•	•	•	•	•	•	•	•	•	•
VMF-E2Z	Н	•	•	•	•	•	•	•	•	•	•	•	•
VMF-E3	H,HP	•	•	•	•	•	•	•	•	•	•	•	•
VMF-E4DX	H,HP	•	•	•	•	•	•	•	•	•	•	•	•
VMF-E4X	H,HP	•	•	•	•	•	•	•	•	•	•	•	•
VMF-IO	Н	•	•	•	•	•	•	•	•	•		•	•
VMF-IR	H,HP	•	•	•	•	•	•	•	•	•	•	•	•
VMF-LON	Н	•	•	•	•	•	•	•	•	•	•	•	•
VMF-SW1	H,HP	•	•	•	•	•	•	•	•	•	•	•	•
VMHI	H,HP	•	•	•	•	•	•						

(1) Mandatory accessory.

Common accessories

3 way valve kit

Model	Ver	200	250	300	350	400	450	500	550	700	750	900	950
VCZ41 (1)	H,HP,HT	•	•										
VCZ4124 (2)	H,HP,HT	•	•										
VCZ42 (1)	H,HP,HT				•								
VCZ4224 (2)	H,HP,HT			•	•	•	•	•	•	•	•		
VCZ43 (1)	H,HP,HT											•	•
VCZ4324 (2)	H,HP,HT												•

(1) 230V~50Hz (2) 24V

2 way valve kit

Model	Ver	200	250	300	350	400	450	500	550	700	750	900	950
VCZD1 (1)	H,HP,HT	•	•										
VCZD124 (2)	H,HP,HT	•	•										
VCZD2 (1)	H,HP,HT			•	•	•	•	•	•	•			
VCZD224 (2)	H,HP,HT				•								
VCZD3 (1)	H,HP,HT											•	•
VC7D324 (2)	H.HP.HT											•	•

(1) 230V~50Hz (2) 24V

Combined Adjustment and Balancing Valve Kit

Model	Ver	200	250	300	350	400	450	500	550	700	750	900	950
VJP060 (1)	H,HP,HT	•	•	•	•								
VJP060M (2)	H,HP,HT	•	•	•	•								
VJP090 (1)	H,HP,HT												
VJP090M (2)	H,HP,HT					•	•	•	•				
VJP150 (1)	H,HP,HT									•	•	•	
VJP150M (2)	H.HP.HT												

(1) 230V~50Hz (2) 24V

Wall mounting kit

<u></u>												
Ver	200	250	300	350	400	450	500	550	700	750	900	950
H, HP	AMP20											

Condensate drainage

Model	Ver	200	250	300	350	400	450	500	550	700	750	900	950
DSC4 (1)	HP	•	•	•	•	•	•	•	•	•	•	•	•

(1) DSC4 cannot be mounted if even just one of these accessories is also installed: AMP-AMPZ valve VCZ1-2-3-4 X4L/R and all the condensate collection trays.

Condensate drip

Ver	200	250	300	350	400	450	500	550	700	750	900	950
НР	BCZ4 (1)											
(1) For vertical installation.												
Ver	200	250	300	350	400	450	500	550	700	750	900	950
HP	BC8 (1)	BC9 (1)	BC9 (1)									

(1) For horizontal installation.

Panel closing the rear of the unit

Ver	200	250	300	350	400	450	500	550	700	750	900	950
H, HT	PCZ200	PCZ200	PCZ300	PCZ300	PCZ500	PCZ500	PCZ500	PCZ500	PCZ800	PCZ800	PCZ1000	PCZ1000

Grille also applicable for floor installation

Ver	200	250	300	350	400	450	500	550	700	750	900	950
H, HP, HT	GA200	GA200	GA300	GA300	GA500	GA500	GA500	GA500	GA800	GA800	GA800	GA800

Ver	200		250		300		350		400		50	50		550		700		750		900		950	
H, HP, HT	FIKIT2	IKIT200 FIKIT200		0	FIKIT300	F	IKIT300	FII	(IT500	FIKI	IT500	FIKIT	KIT500 FIKI		T500 FIKIT800		0 FIKIT800		FIKIT800		FII	(IT800	
Ventilcassaforma																							
Ver	200	200		250		300		350	400			450		500			700		750	900			950
HP	CHF22					CHF32		CHF42			CHF42 CHF			550 CHF4		CHF62		CHF62		CHF62		HF62	
	CIII 2		CITIZZ		CHF32		CIII JZ		1111 12	Ci	11 12	CIII	12	CIII T		CITIOZ		CIII 02		.111 02		1102	
Brackets to fix the fan coil to	_																						
Ver	200						350		400		450 500			550		700		750	900			950	
H, HT	SPC	7	SPCZ		SPCZ		SPCZ		SPCZ	SI	PCZ	SPO		SPCZ		SPCZ		SPCZ		SPCZ		SPCZ	
Pair of stylish structural feet																							
Ver	200	0	250		300		350		400	4	50	50	0	550		700		750		900		950	
H, HP, HT	ZXZ	7	ZXZ		ZXZ		ZXZ		ZXZ	Z	XZ	ZX	7	ZXZ		ZXZ		ZXZ		ZXZ		ZXZ	
PERFORMANCE SPECIFI	CATIO	ONS																					
2-pipe	CATIO	ONS																					
	FCZI200H		H	F	CZ1250	ZI250H		FCZI300H			FCZI350	Н	F	FCZI400	Н	FCZI450I		Н	FCZI50		H		
		1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	
Heating nerformance 70 °C / C0 °C /4\		L	M	Н	L	М	Н	L	М	Н	L	М	Н	L	М	Н	L	М	Н	L	М	Н	
Heating performance 70 °C / 60 °C (1)	LAM	2.02	2 05	2 70	2 20	2 10	4.05	2 47	1 16	E E0	2 77	4.02	6 10	422	E 74	7 1 5	1 57	6 20	7 0 2	E 27	7 21	0 [
Heating capacity Water flow rate system side	kW I/h	2,02 177	2,95 258	3,70 324	2,20 193	3,18 278	4,05 355	3,47 304	4,46 391	5,50 482	3,77	4,92 431	6,15 539	4,32 379	5,74	7,15 627	4,57	6,29 551	7,82 685	5,27 462	7,31 641	8,50 745	
Pressure drop system side	kPa	6	12	18	7	15	23	7	12	18	8	14	20	9	16	24	6	11	16	12	21	28	
Heating performance 45 °C / 40 °C (2)	NI a	0	12	10	1	IJ		/	12	10	0	17	20)	10	24	_ 0	- 11	10	12			
Heating capacity	kW	1,00	1,46	1,84	1,09	1,58	2,01	1,72	2,21	2,73	1,87	2,44	3,06	2,14	2,85	3,55	2,27	3,12	3,88	2,62	3,63	4,22	
Water flow rate system side	I/h	174	254	319	190	274	350	299	385	475	325	425	531	373	495	617	394	543	675	455	631	734	
Pressure drop system side	kPa	6	12	18	8	15	22	8	12	18	8	14	20	10	16	24	6	11	16	12	21	28	
Cooling performance 7 °C / 12 °C								_									-						
Cooling capacity	kW	0,89	1,28	1,60	1,06	1,55	1,94	1,68	2,17	2,65	1,89	2,46	3,02	2,20	2,92	3,60	2,41	3,21	4,03	2,68	3,69	4,25	
Sensible cooling capacity	kW	0,71	1,05	1,33	0,79	1,20	1,52	1,26	1,65	2,04	1,33	1,76	2,18	1,59	2,14	2,67	1,69	2,30	2,90	1,94	2,73	3,18	
Water flow rate system side	l/h	153	221	275	182	267	334	288	374	456	350	460	560	379	503	619	414	552	694	460	634	731	
Pressure drop system side	kPa	7	13	18	8	17	25	8	13	18	11	18	25	10	17	24	9	15	22	13	23	29	
Fan																							
Туре	type										(Centrifug	al										
Fan motor	type											Inverter	1										
Number	no.		_1_			1			2			2			2			2			2		
Air flow rate	m³/h	140	220	290	140	220	290	260	350	450	260	350	450	330	460	600	330	460	600	400	600	720	
Input power	W	5	8	14	5	8	14	5	7	13	5	7	13	5	10	18	5	10	18	7	18	34	
Signal 0-10V	%	44	68	90	44	68	90	52	70	90	52	70	90	49	68	90	49	68	90	50	74	90	
Diametre hydraulic fittings																							
Туре	type											Gas - F											
Main heat exchanger	Ø		1/2"			1/2"			3/4"			3/4"			3/4"			3/4"			3/4"		
Fan coil sound data (3)	ID(A)	25.0		F1.0	1 25 0	16.0	F4.0	240	44.0	40.0	240	44.0	40.0	27.0	44.0	F4.0	27.0	44.0		120	F1.0		
Sound power level	dB(A)	35,0	46,0	51,0	35,0	46,0	51,0	34,0	41,0	48,0	34,0	41,0	48,0	37,0	44,0	51,0	37,0	44,0	51,0	42,0	51,0	56,0	
Sound pressure	dB(A)	27,0	38,0	43,0	27,0	38,0	43,0	26,0	33,0	40,0	26,0	33,0	40,0	29,0	36,0	43,0	29,0	36,0	43,0	34,0	43,0	48,0	
Power supply Power supply											1	30V~50	Пэ										
гожеі зирріу						$\overline{}$		7170011		_													
		1					CZI700H			FCZI750H 1 2 3		3 1 2				1	FCZI950H		3				
		L		M	<u>э</u> Н			2 M	3 H	+	L	2 M	 H	-	L			Н	L			Н	
Heating performance 70 °C / 60 °C (1)																							
Heating capacity	kW	5,82	8	,34	9,75	6,5	50	8,10	10,00	7	7,19	9,15	11,	50	10,77	13,35	5 1	5,14	11,20	14,	42	17,10	
Water flow rate system side	l/h	510		31	855	57		710	877	_	631	802	100		945	1171		328	982	126		1500	
Pressure drop system side	kPa	10		20	26	1		18	26		14	21	3	-	12	17		22	16	2.5		33	
Heating performance 45 °C / 40 °C (2)																							
Heating capacity	kW	2,89	4	,14	4,85	3,3	32	4,03	4,97	3	3,57	4,55	5,7	2	5,35	6,64	7	7,53	5,57	7,1	7	8,50	
Water flow rate system side	l/h	502	7	'20	842	56	51	699	863	(621	790	99	3	930	1152	1	307	967	124	45	1476	
Pressure drop system side	kPa	10	- 7	20	26	1	2	18	26		14	20	3	1	12	17		22	15	24	1	33	
Cooling performance 7 °C / 12 °C																							

900

80

4,65

3,92

800

26

3,95

2,78

595

15

520

30

4,80

3,43

825

21

Centrifugal

Inverter

720

40

4,29

2,97

738

10

700

30

5,00

3,78

860

13

930

40

6,91

5,68

1189

22

1140

80

5,77

3,80

992

15

700

7,32

4,87

1259

23

930

40

5,67

4,12

975

28

900

80

8,60

5,78

1479

30

1140

80

5

Cooling performance 7 °C / 12 °C

kW

kW

I/h

kPa

type

type

no. m³/h

W

2,91

2,07

501

12

400

4,13

2,98

711

22

600

18

4,79

3,49

824

28

720

34

3,22

2,56

554

14

520

30

3,90

3,17

671

19

720

40

Cooling capacity

Fan

Туре

Fan motor

Number

Air flow rate

Input power

Sensible cooling capacity

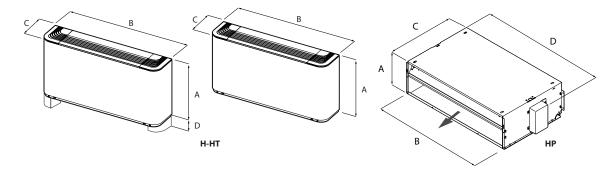
Water flow rate system side

Pressure drop system side

		FCZI550H			FCZI700H			FCZI750H			FCZI900H			FCZI950H		
Signal 0-10V	%	50	74	90	56	72	90	56	72	90	56	72	90	56	72	90
Diametre hydraulic fittings																
Туре	type								Gas - F							
Main heat exchanger	Ø								3/4"							
Fan coil sound data (3)																
Sound power level	dB(A)	42,0	51,0	56,0	42,0	51,0	57,0	42,0	51,0	57,0	51,0	57,0	62,0	51,0	57,0	61,0
Sound pressure	dB(A)	34,0	43,0	48,0	34,0	43,0	49,0	34,0	43,0	49,0	43,0	49,0	54,0	43,0	49,0	53,0
Power supply																
Power supply		230V~50Hz														

- (1) Room air temperature 20 °C d.b.; Water (in/out) 70 °C/60 °C
 (2) Room air temperature 20 °C d.b.; Water (in/out) 45 °C/40 °C; EUROVENT
 (3) Aermec determines the sound power value on the basis of measurements taken in accordance with standard UNI EN 16583:15, respecting the Eurovent certification.

DIMENSIONS



Size			200	250	300	350	400	450	500	550	700	750	900	950
Dimensions and weights														
1	H,HT	mm	486	486	486	486	486	486	486	486	486	486	591	591
A	HP	mm	216	216	216	216	216	216	216	216	216	216	591 216 1320 1122 220 558 90 1147	216
В	H,HT	mm	750	750	980	980	1200	1200	1200	1200	1320	1320	1320	1320
	HP	mm	522	522	753	753	973	973	973	973	1122	1122	1122	1122
	H,HT	mm	220	220	220	220	220	220	220	220	220	220	220	220
	HP	mm	453	453	453	453	453	453	453	453	453	453	558	558
D	H,HT	mm	90	-	90	-	90	-	90	-	90	-	90	90
U	HP	mm	562	-	793	-	1013	-	1013	-	1147	-	1147	1147
Frankrissinks	H,HT	kg	15	16	17	18	22	24	22	24	29	31	34	34
Empty weight	HP	kg	12	14	14	16	20	22	23	24	26	31	32	32

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