Data has to be declared for all Models inside a sub-type.

Certificate data	
Certificate holder name	tecalor GmbH
Address	Lüchtringer Weg Nr. 3 37603 Holzminden Germany
Type of heat pump	Air/Water
Reg. No.	011-1W0053
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH
Name of testing laboratory	VDE Prüf- und Zertifizierungsinstitut

1. Air/Water; Brine/Water; Water/Water heat pumps (if applicable)

	TTL 33 HT		
General data			
Refrigerant	R407 C		
Mass of refrigerant [kg]	5,8		
GWPaccording to EU Nr. 517/2014 [CO_{2eq} in t]	10,289		
Frequency [Hz]	50		
Voltage [V]	400		
Test points EN 14511-2 Air/Water heat pump (if applicable)			
A7/W35			
heat output [kW]	5,61		
El input [kW]	1,27		
COP	4,41		
A7/W55	(if applicable)		
heat output [kW]	5,06		
El input [kW]	2,02		
COP	2,5		
Test points EN 14511-2 Brine/Water heat pump (if applicable)			
B0/W35			
heat output [kW]			
El input [kW]			
COP			
B0/W55			
heat output [kW]			
El input [kW]			
COP			
Test points EN 14511-2 Water/Water heat pump (if applicable)			
W10/W35			
heat output [kW]			
El input [kW]			
COP			
W10/W55			
heat output [kW]			
El input [kW]			
COP			

In case of gas driven heat pump, EN14511 shall be replaced by EN 12309:2015-03

Test points EN 14511-4			
operating Range A…/W… lower limit-lower limit (min)			
Please state if the requirement is passed or failed	passed		
operating Range A…/W… upper limit- upper limit (min)			
Please state if the requirement is passed or failed	passed		
Shutting off the heat transfer medium flow			
Please state if the requirement is passed or failed	passed		
Complete power supply failure			
Please state if the requirement is passed or failed	passed		
Defrost test only for AirT Water heat pumps (if applicable)			
Please state if the requirement is passed or failed	passed		

Average Climate Low temperature application (if applicable)			
Declared values EN 14825			
T_{biv} [°C]	T_{biv} at low temperature conditions		
heat output [kW]	11,2		
El input [kW]	3,89		
COP	2,88		
Sound power level according EN 12102			
Sound power level indoor if relevant) [dB(A)]	(See 55° C application)		
Sound power level outdoor [dB(A)]	(See 55° C application)		
Declared data regarding ErP regulation			
η_s	147		
P_{rated} [kW]	14		
SCOP	3,78		
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature *Tj*			
Pdh: *Tj* = - 7 °C [kW]	12,4		
COPd: Tj = - 7 °C	2,49		
Pdh: *Tj* = +2 °C [kW]	7,3		
COPd: Tj = + 2 °C	3,76		
Pdh: *Tj* = +7 °C [kW]	5,8		
COPd: Tj = + 7 °C	5,16		
Pdh: *Tj* = +12 °C [kW]	6,9		
COPd: Tj = + 12 °C	6,55		
Pdh: *Tj* = bivalent temperature [kW]	11,2		
COPd: *Tj* = bivalent temperature	2,88		
Pdh: *Tj* = - 15 °C (if *TOL* < - 20 °C) [kW]	13,2		
COPd: *Tj* = - 15 °C (if *TOL* < - 20 °C)	2,16		
T_{biv} [°C]	-5		
TOL [°C]	-20		
WTOL [°C]	75		
Annual energy consumption Q_{HE} [kWh]	7663		
Power input „compressor off“ [kW]	0		
P_{OFF} [W]	7		
P_{TO} [W]	7		
P_{SB} [W]	7		
P_{CK} [W]	62		
P_{SUP} [kW]	2,25		
Type of energy input (e.g. electricity)	electricity		

Average Climate Medium temperature application (if applicable)			
Declared values EN 14825			
T_{biv} [°C]			
heat output [kW]	11,7		
El input [kW]	5,04		
COP	2,31		
Sound power level according EN 12102			
Sound power level indoor if relevant) [dB(A)]	53		
Sound power level outdoor [dB(A)]	58		
Declared data regarding ErP regulation			
η_s	122		
P_{rated} [kW]	14		
SCOP	3,09		
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature *Tj*			
Pdh: *Tj* = - 7 °C [kW]	12,8		
COPd: Tj = - 7 °C	2,09		
Pdh: *Tj* = +2 °C [kW]	7,6		
COPd: Tj = + 2 °C	3,06		
Pdh: *Tj* = +7 °C [kW]	5,6		
COPd: Tj = + 7 °C	4,32		
Pdh: *Tj* = +12 °C [kW]	6,6		
COPd: Tj = + 12 °C	5,79		
Pdh: *Tj* = bivalent temperature [kW]	11,7		
COPd: *Tj* = bivalent temperature	2,31		
Pdh: *Tj* = - 15 °C (if *TOL* < - 20 °C) [kW]	14,34		
COPd: Tj = - 15 °C (if *TOL* < - 20 °C)	2,11		
T_{biv} [°C]	-5		
TOL [°C]	-20		
WTOL [°C]	75		
Annual energy consumption Q_{HE} [kWh]	9557		
Power input „compressor off“ [kW] (if applicable)	0		
P_{OFF} [W]	7		
P_{TO} [W]	7		
P_{SB} [W]	7		
P_{CK} [W]	62		
P_{SUP} [kW]	0,64		
Type of energy input (e.g. electricity)	electricity		

Warmer Climate (if applicable)			
Declared values EN 14825 – 35°C application			
T_{biv} [°C]			
heat output [kW]			
El input [kW]			
COP			
Sound power level according EN 12102			
Sound power level indoor if relevant) [dB(A)]			
Sound power level outdoor [dB(A)]			
Declared data regarding ErP regulation			
η_s			
P_{rated} [kW]			
SCOP	4,66		
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature *Tj*			
Pdh*Tj* = - 7 °C [kW]			
COPd Tj = - 7 °C			
Pdh*Tj* = +2 °C [kW]			
COPd Tj = + 2 °C			
Pdh *Tj* = +7 °C [kW]			
COPd Tj = + 7 °C			
Pdh *Tj* = +12 °C [kW]			
COPd Tj = + 12 °C			
Pdh *Tj* = bivalent temperature [kW]			
COPd Tj = bivalent temperature			
Pdh *Tj* = - 15 °C (if *TOL* < - 20 °C) [kW]			
COPd *Tj* = - 15 °C (if *TOL* < - 20 °C)			
T_{biv} [°C]			
TOL [°C]			
WTOL [°C]			
Annual energy consumption Q_{HE} [kWh]			
Power input „compressor off“ [kW] (if applicable)			
P_{OFF} [W]			
P_{TO} [W]			
P_{SB} [W]			
P_{CK} [W]			
P_{SUP} [kW]			
Type of energy input (e.g. electricity)			

Colder Climate (if applicable)			
Declared values EN 14825 – 35°C application			
T_{biv}/°C			
heat output [kW]			
El input[kW]			
COP			
Sound power level according EN12102			
Sound power level indoor if relevant) [dB(A)]			
Sound power level outdoor [dB(A)]			
Declared date regarding ErP regulation			
η_s			
P_{rated} [kW]			
SCOP	2,81		
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature *Tj*			
Pdh: *Tj* = - 7 °C [kW]			
COPd: Tj = - 7 °C			
Pdh: *Tj* = +2 °C [kW]			
COPd: Tj = + 2 °C			
Pdh: *Tj* = +7 °C [kW]			
COPd: Tj = + 7 °C			
Pdh: *Tj* = +12 °C [kW]			
COPd: Tj = + 12 °C			
Pdh: Tj = bivalent temperature [kW]			
COPd: *Tj* = bivalent temperature			
Pdh: *Tj* = - 15 °C (if *TOL* < - 20 °C) [kW]			
COPd: *Tj* = - 15 °C (if *TOL* < - 20 °C)			
T_{biv} [°C]			
TOL [°C]			
WTOL [°C]			
Annual energy consumption Q_{HE} [kWh]			
Power input „compressor off“ [kW] (if applicable)			
P_{OFF} [W]			
P_{TO} [W]			
P_{SB} [W]			
P_{CK} [W]			
P_{SUP} [kW]			
Type of energy input (e.g. electricity)			

2. ·Exhaust air heat pumps (if applicable)

	Model 1	Model 2	Model…
General data			
Refrigerant			
Mass of refrigerant [kg]			
GWP according to EU Nr. 517/2014 [CO_{2eq}]			
Frequency [Hz]			
Voltage [V]			
Test points EN 14511-2			
A20/W35			
heat output [kW]			
El input [kW]			
COP			
A20/W55	(if applicable)		
heat output [kW]			
El input [kW]			
COP			
Test points EN 14511-4			
operating Range A…/W… lower limit-lower limit (min)			
Please state if the requirement is passed or failed	e.g. passed		
operating Range A…/W… upper limit- upper limit (min)			
Please state if the requirement is passed or failed			
Shutting off the heat transfer medium flow			
Please state if the requirement is passed or failed			
Complete power supply failure			
Please state if the requirement is passed or failed			
Defrost test (if applicable)			
Please state if the requirement is passed or failed			

Average Climate Low temperature application (if applicable)			
Declared values EN 14825			
T_{biv} [°C]	T_{biv} at low temperature conditions		
heat output [kW]			
El input [kW]			
COP			
Sound power level according EN 12102 (only required for low temperature heat pumps)			
Sound power level indoor if relevant) [dB(A)]			
Sound power level outdoor [dB(A)]			
Declared data regarding ErP regulation			
η_s			
P_{rated} [kW]			
SCOP			
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature *Tj*			
Pdh: *Tj* = - 7 °C [kW]			
COPd: Tj = - 7 °C			
Pdh: *Tj* = +2 °C [kW]			
COPd: Tj = + 2 °C			
Pdh: *Tj* = +7 °C [kW]			
COPd: Tj = + 7 °C			
Pdh: *Tj* = +12 °C [kW]			
COPd: Tj = + 12 °C			
Pdh: *Tj* = bivalent temperature [kW]			
COPd: *Tj* = bivalent temperature [kW]			
Pdh: *Tj* = - 10 °C (if *TOL* < - 20 °C) [kW]			
COPd: *Tj* = - 10 °C (if *TOL* < - 20 °C)			
T_{biv} [°C]			
Rated airflow rate [m³/h]			
TOL [°C]			
WTOL [°C]			
Annual energy consumption Q_{HE} [kWh]			
Power input „compressor off“ [kW]			
P_{OFF} [W]			
P_{TO} [W]			
P_{SB} [W]			
P_{CK} [W]			
P_{SUP} [kW]			
Type of energy input (e.g. electricity)			

Average Climate Medium temperature application (if applicable)			
Declared values EN 14825			
T_{biv} [°C]	T_{biv} at medium temperature conditions		
heat output [kW]			
El input [kW]			
COP			
Sound power level according 12102			
Sound power level indoor if relevant) [dB(A)]			
Sound power level outdoor [dB(A)]			
Declared data regarding ErP regulation			
η_s			
P_{rated} [kW]			
SCOP			
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature *Tj*			
Pdh: *Tj* = - 7 °C [kW]			
COPd: Tj = - 7 °C			
Pdh: *Tj* = +2 °C [kW]			
COPd: Tj = + 2 °C			
Pdh: *Tj* = +7 °C [kW]			
COPd: Tj = + 7 °C			
Pdh: *Tj* = +12 °C [kW]			
COPd: Tj = + 12 °C			
Pdh: *Tj* = bivalent temperature [kW]			
COPd: *Tj* = bivalent temperature [kW]			
Pdh: *Tj* = - 15 °C (if *TOL* < - 20 °C) [kW]	n.a.	n.a.	n.a.
COPd: Tj = - 15 °C (if *TOL* < - 20 °C)	n.a.	n.a.	n.a.
T_{biv} [°C]			
Rated airflow rate [m³/h]			
TOL [°C]			
WTOL [°C]			
Annual energy consumption Q_{HE} [kWh]			
Power input „compressor off“ [kW] (if applicable)			
P_{OFF} [W]			
P_{TO} [W]			
P_{SB} [W]			
P_{CK} [W]			
P_{SUP} [kW]			
Type of energy input (e.g. electricity)			

Warmer Climate (if applicable)			
Declared values EN 14825			
T_{biv} [°C]			
heat output [kW]			
El input [kW]			
COP			
Sound power level according 12102			
Sound power level indoor if relevant) [dB(A)]			
Sound power level outdoor [dB(A)]			
Declared data regarding ErP regulation			
η_s			
P_{rated} [kW]			
SCOP			
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature *Tj*			
Pdh*Tj* = - 7 °C [kW]	n.a.	n.a.	n.a.
COPd Tj = - 7 °C	n.a.	n.a.	n.a.
Pdh*Tj* = +2 °C [kW]			
COPd Tj = + 2 °C			
Pdh *Tj* = +7 °C [kW]			
COPd Tj = + 7 °C			
Pdh *Tj* = +12 °C [kW]			
COPd Tj = + 12 °C			
Pdh *Tj* = bivalent temperature [kW]			
COPd Tj = bivalent temperature			
Pdh *Tj* = - 15 °C (if *TOL* < - 20 °C) [kW]	n.a.	n.a.	n.a.
COPd *Tj* = - 15 °C (if *TOL* < - 20 °C)	n.a.	n.a.	n.a.
T_{biv} [°C]			
Rated airflow rate [m³/h]			
TOL [°C]			
WTOL [°C]			
Annual energy consumption Q_{HE} [kWh]			
Power input „compressor off“ [kW] (if applicable)			
P_{OFF} [W]			
P_{TO} [W]			
P_{SB} [W]			
P_{CK} [W]			
P_{SUP} [kW]			
Type of energy input (e.g. electricity)			

Colder Climate (if applicable)			
Declared values EN 14825			
T_{biv}/°C			
heat output [kW]			
El input[kW]			
COP			
Sound power level according 12102			
Sound power level indoor if relevant) [dB(A)]			
Sound power level outdoor [dB(A)]			
Declared date regarding ErP regulation			
η_s			
P_{rated} [kW]			
SCOP			
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature *Tj*			
Pdh: *Tj* = - 7 °C [kW]			
COPd: Tj = - 7 °C			
Pdh: *Tj* = +2 °C [kW]			
COPd: Tj = + 2 °C			
Pdh: *Tj* = +7 °C [kW]			
COPd: Tj = + 7 °C			
Pdh: *Tj* = +12 °C [kW]			
COPd: Tj = + 12 °C			
Pdh: Tj = bivalent temperature [kW]			
COPd: *Tj* = bivalent temperature			
Pdh: *Tj* = - 15 °C (if *TOL* < - 20 °C) [kW]			
COPd: *Tj* = - 15 °C (if *TOL* < - 20 °C)			
T_{biv} [°C]			
TOL [°C]			
WTOL [°C]			
Annual energy consumption Q_{HE} [kWh]			
Power input „compressor off“ [kW] (if applicable)			
P_{OFF} [W]			
P_{TO} [W]			
P_{SB} [W]			
P_{CK} [W]			
P_{SUP} [kW]			
Type of energy input (e.g. electricity)			

3. Heat pumps for Domestic Hot Water (DHW) (if applicable)

	Model 1	Model 2	Model…
General data			
Refrigerant			
Mass of refrigerant [kg]			
GWP			
Frequency [Hz]			
Voltage [V]			
Off-peak product (yes/no)			
Technical data – average climate			
Declared load profil			
Effciency η_{dhw} in %			
Heating up time h:min			
Standby power input W			
Reference hot water temperature °C			
Mixed water at 40°C			
Sound power level indoor if relevant) [dB(A)]			
Sound power level outdoor [dB(A)]			
Technical data – colder climate			
Declared load profil			
Effciency η_{dhw} in %			
Heating up time h:min			
Standby power input W			
Reference hot water temperature °C			
Mixed water at 40°C			
Sound power level indoor if relevant) [dB(A)]			
Sound power level outdoor [dB(A)]			
Technical data – warmer climate			
Declared load profil			
Effciency η_{dhw} in %			
Heating up time h:min			
Standby power input W			
Reference hot water temperature °C			
Mixed water at 40°C			
Sound power level indoor if relevant) [dB(A)]			
Sound power level outdoor [dB(A)]			