

Subtype ADAPT 0312	
Certificate Holder	KRONOTERM d.o.o.
Address	Trnava 5e
ZIP	3303
City	Gomilsko
Country	SI
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH
Subtype title	ADAPT 0312
Registration number	011-1W0516
Heat Pump Type	Outdoor Air/Water
Refrigerant	R452B
Mass of Refrigerant	2.9 kg
Certification Date	18.01.2022
Testing basis	HP KEYMARK certification scheme rules rev. 9



Model ADAPT 0312-K3 HT / HK 1F		
Model name	ADAPT 0312-K3 HT / HK 1F	
Application	Heating (medium temp)	
Units	Outdoor	
Climate zone (for heating)	n/a	
Reversibility	Yes	
Cooling mode application (optional)	n/a	
Any additional heat sources	n/a	
General data		
Power supply	1x230V 50Hz	
Off-peak product	n/a	
Outdoor Air/Water		
EN 14511-4 Heating		
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	
Starting and operating test	passed	
EN 14511-2 Heating		
	Low temperature	Medium temperature
Heat output	6.08 kW	5.87 kW
El input	1.13 kW	1.91 kW
COP	5.45	3.08
EN 12102-1 Average Climate		
	Low temperature	Medium temperature
Sound power level outdoor	44 dB(A)	42 dB(A)
EN 14825 Average Climate		
	Low temperature	Medium temperature
ης	194 %	139 %
Prated	8.10 kW	7.40 kW
SCOP	5.08	3.65
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7° C	7.22 kW	6.37 kW
$COP Tj = -7^{\circ}C$	3.35	2.43
Cdh Tj = -7 °C	0.900	0.900
$Pdh Tj = +2^{\circ}C$	4.60 kW	4.36 kW
$COP Tj = +2^{\circ}C$	5.22	3.71
Cdh Tj = +2 °C	0.900	0.900
$Pdh Tj = +7^{\circ}C$	2.88 kW	2.78 kW



$COP Tj = +7^{\circ}C$	6.13	4.45
Cdh Tj = $+7$ °C	0.900	0.900
Pdh Tj = 12°C	2.77 kW	2.88 kW
COP Tj = 12°C	6.90	5.67
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	8.00 kW	7.40 kW
COP Tj = Tbiv	3.04	2.01
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.00 kW	7.41 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.04	2.01
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	67 °C	67 °C
Poff	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.10 kW	0.00 kW
Annual energy consumption Qhe	3295 kWh	4192 kWh



Model ADAPT 0312-K3 HT / HK 1F + HYDRO	C	
Model name	ADAPT 0312-K3 HT / HK 1F +	+ HYDRO C
Application	Heating + DHW	
Units	Indoor, Outdoor	
Climate zone (for heating)	n/a	
Reversibility	Yes	
Cooling mode application (optional)	n/a	
Any additional heat sources	n/a	
General data		
Power supply	1x230V 50Hz	
Off-peak product	n/a	
Outdoor Air/Water		
EN 16147 Average Climate		
Declared load profile	XL	
Efficiency nDHW	116 %	
СОР	2.74	
Heating up time	1:46 h:min	
Standby power input	68.2 W	
Reference hot water temperature	55.5 °C	
Mixed water at 40°C	260 I	
EN 14511-4 Heating		
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	
Starting and operating test	passed	
EN 14511-2 Heating		
	Low temperature	Medium temperature
Heat output	5.87 kW	·
El input	1.91 kW	
COP	3.08	
EN 12102-1 Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	0 dB(A)	
Sound power level outdoor	42 dB(A)	
EN 14825 Average Climate		
	Low temperature	Medium temperature
ης	139 %	



Prated	7.40 kW
SCOP	3.65
Tbiv	-10 °C
TOL	-10 °C
Pdh Tj = -7° C	6.37 kW
$COP Tj = -7^{\circ}C$	2.43
Cdh Tj = -7 °C	0.900
Pdh Tj = $+2$ °C	4.36 kW
$COP Tj = +2^{\circ}C$	3.71
Cdh Tj = +2 °C	0.900
Pdh Tj = $+7^{\circ}$ C	2.78 kW
$COP Tj = +7^{\circ}C$	4.45
Cdh Tj = +7 °C	0.900
Pdh Tj = 12°C	2.88 kW
COP Tj = 12°C	5.67
Cdh Tj = +12 °C	0.900
Pdh Tj = Tbiv	7.41 kW
COP Tj = Tbiv	2.01
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.41 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.01
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900
WTOL	67 °C
Poff	14 W
PTO	14 W
PSB	14 W
PCK	14 W
Supplementary Heater: Type of energy input	Electricity
Supplementary Heater: PSUP	0.00 kW
Annual energy consumption Qhe	4192 kWh



Model ADAPT 0312-K3 HT / HK 3F		
Model name	ADAPT 0312-K3 HT / HK 3F	
Application	Heating (medium temp)	
Units	Indoor	
Climate zone (for heating)	n/a	
Reversibility	Yes	
Cooling mode application (optional)	n/a	
Any additional heat sources	n/a	
General data		
Power supply	3x400V 50Hz	
Off-peak product	n/a	
Outdoor Air/Mator		
Outdoor Air/Water		
EN 14511-4 Heating		
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	
Starting and operating test	passed	
EN 14511-2 Heating		
	Low temperature	Medium temperature
Heat output	6.02 kW	5.87 kW
El input	1.12 kW	1.92 kW
COP	5.41	3.06
EN 12102-1 Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	42 dB(A)
EN 14825 Average Climate		
, ,	Low temperature	Medium temperature
ης	188 %	137 %
Prated	8.40 kW	7.80 kW
SCOP	4.93	3.57
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7 °C	7.30 kW	6.46 kW
$COP Tj = -7^{\circ}C$	3.45	2.44
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = $+2$ °C	4.83 kW	4.48 kW
$COP Tj = +2^{\circ}C$	4.87	3.72
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = $+7^{\circ}$ C	3.04 kW	2.75 kW



$COP Tj = +7^{\circ}C$	6.19	4.25
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.01 kW	2.92 kW
COP Tj = 12°C	7.19	5.36
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	8.05 kW	7.48 kW
COP Tj = Tbiv	3.11	2.04
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.05 kW	7.48 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.11	2.04
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	67 °C	67 °C
Poff	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.35 kW	0.32 kW
Annual energy consumption Qhe	3520 kWh	4510 kWh



Model ADAPT 0312-K3 HT / HK 3F + HYDRO) C	
Model name	ADAPT 0312-K3 HT / HK 3F +	· HYDRO C
Application	Heating + DHW	
Units	Indoor, Outdoor	
Climate zone (for heating)	n/a	
Reversibility	Yes	
Cooling mode application (optional)	n/a	
Any additional heat sources	n/a	
General data		
Power supply	3x400V 50Hz	
Off-peak product	n/a	
Outdoor Air/Water		
EN 16147 Average Climate		
Declared load profile	XL	
Efficiency ηDHW	115 %	
COP	2.73	
Heating up time	1:46 h:min	
Standby power input	69.0 W	
Reference hot water temperature	55.4 °C	
Mixed water at 40°C	261 l	
EN 14511-4 Heating		
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	
Starting and operating test	passed	
EN 14511-2 Heating		
	Low temperature	Medium temperature
Heat output	5.87 kW	,
El input	1.92 kW	
COP	3.06	
EN 12102-1 Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	0 dB(A)	-
Sound power level outdoor	42 dB(A)	
EN 14825 Average Climate		
	Low temperature	Medium temperature
ης	137 %	



SCOP 3.57 Tbiv	Prated	7.80 kW
TOL -10 °C Pdh Tj = -7°C 6.46 kW COP Tj = -7°C 2.44 Cdh Tj = -7°C 0.900 Pdh Tj = +2°C 0.900 Pdh Tj = +2°C 3.72 Cdh Tj = +2 °C 0.900 Pdh Tj = +7°C 2.75 kW COP Tj = +7°C 4.25 COP Tj = +7°C 4.25 COH Tj = +7°C 4.25 COH Tj = +2°C 0.900 Pdh Tj = 12°C 0.900 Pdh Tj = Tbiv 7.48 kW COP Tj = Tbiv 7.48 kW COP Tj = ToL or Pdh Tj = Tdesignh if TOL 7.48 kW COP Tj = TOL or COP Tj = Tdesignh if TOL 7.48 kW COP Tj = TOL or Pdh Tj = Tdesignh if TOL 7.48 kW COP Tj = TOL or Pdh Tj = Tdesignh if TOL 7.48 kW COP Tj = TOL or Pdh Tj = Tdesignh if TOL 7.48 kW COP Tj = TOL or Pdh Tj = Tdesignh if TOL 7.48 kW COP Tj = TOL or Pdh Tj = Tdesignh if TOL 7.48 kW COP Tj = TOL or Pdh Tj = Tdesignh if TOL 7.48 kW COP Tj = TOL or Pdh Tj = Tdesignh if TOL 7.48 kW COP Tj = TOL or Pdh Tj = Tdesignh if TOL 7.48 kW COP Tj = TOL or Pdh Tj = Tdesignh if TOL 7.48 kW COP Tj = TOL or Pdh Tj = Tdesignh if TOL 7.48 kW COP Tj = TOL or Pdh Tj = Tdesignh if TOL 7.48 kW COP Tj = TOL or Pdh Tj = Tdesignh if TOL 7.48 kW COP Tj = TOL or Pdh Tj = Tdesignh if TOL 7.48 kW COP Tj = TOL or Pdh Tj = Tdesignh if TOL 7.48 kW COP Tj = TOL or Pdh Tj = Tdesignh if TOL 7.48 kW COP Tj = TOL or Pdh Tj = Tdesignh if TOL 7.48 kW COP Tj = TOL or Pdh Tj = Tdesignh if TOL 7.48 kW	SCOP	3.57
Pdh Tj = -7°C 6.46 kW COP Tj = -7°C 2.44 Cdh Tj = -7°C 0.900 Pdh Tj = +2°C 4.48 kW COP Tj = +2°C 3.72 Cdh Tj = +2 °C 0.900 Pdh Tj = +7°C 2.75 kW COP Tj = +7°C 4.25 Cdh Tj = +7 °C 0.900 Pdh Tj = 12°C 2.92 kW COP Tj = 12°C 5.36 Cdh Tj = +12 °C 0.900 Pdh Tj = Tbiv 7.48 kW COP Tj = Tbiv 2.04 Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL 2.04 < Tdesignh	Tbiv	-10 °C
COP Tj = -7°C 2.44 Cdh Tj = -7°C 0.900 Pdh Tj = +2°C 4.48 kW COP Tj = +2°C 3.72 Cdh Tj = +2°C 0.900 Pdh Tj = +7°C 2.75 kW COP Tj = +7°C 4.25 Cdh Tj = +7°C 0.900 Pdh Tj = 12°C 2.92 kW COP Tj = 12°C 5.36 Cdh Tj = +12°C 0.900 Pdh Tj = Tbiv 7.48 kW COP Tj = Tbiv 2.04 Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL 7.48 kW < Tdesignh	TOL	-10 °C
Cdh Tj = -7 °C 0.900 Pdh Tj = +2°C 4.48 kW COP Tj = +2°C 0.900 Pdh Tj = +2 °C 0.900 Pdh Tj = +7°C 2.75 kW COP Tj = +7°C 4.25 Cdh Tj = +7 °C 0.900 Pdh Tj = 12°C 2.92 kW COP Tj = 12°C 5.36 Cdh Tj = +12 °C 0.900 Pdh Tj = Tbiv 7.48 kW COP Tj = Tbiv 2.04 Ydh Tj = TOL or Pdh Tj = Tdesignh if TOL 2.04 < Tdesignh	Pdh Tj = -7 °C	6.46 kW
Pdh Tj = +2°C 4.48 kW COP Tj = +2°C 3.72 Cdh Tj = +2°C 0.900 Pdh Tj = +7°C 2.75 kW COP Tj = +7°C 4.25 Cdh Tj = +7°C 0.900 Pdh Tj = 12°C 2.92 kW COP Tj = 12°C 5.36 Cdh Tj = +12 °C 0.900 Pdh Tj = Tbiv 7.48 kW COP Tj = Tbiv 2.04 Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL 7.48 kW < Tdesignh	$COP Tj = -7^{\circ}C$	2.44
COP Tj = +2°C	Cdh Tj = -7 °C	0.900
Cdh Tj = +2 °C 0.900 Pdh Tj = +7°C 2.75 kW COP Tj = +7°C 4.25 Cdh Tj = +7 °C 0.900 Pdh Tj = 12°C 2.92 kW COP Tj = 12°C 5.36 Cdh Tj = +12 °C 0.900 Pdh Tj = Tbiv 7.48 kW COP Tj = Tbiv 2.04 Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL 7.48 kW < Tdesignh	Pdh Tj = $+2$ °C	4.48 kW
Pdh Tj = +7°C 2.75 kW COP Tj = +7°C 4.25 Cdh Tj = +7 °C 0.900 Pdh Tj = 12°C 2.92 kW COP Tj = 12°C 5.36 Cdh Tj = +12 °C 0.900 Pdh Tj = Tbiv 7.48 kW COP Tj = Tbiv 2.04 Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL 2.04 < Tdesignh	$COP Tj = +2^{\circ}C$	3.72
COP Tj = +7°C	Cdh Tj = +2 °C	0.900
Cdh Tj = +7 °C 0.900 Pdh Tj = 12°C 2.92 kW COP Tj = 12°C 5.36 Cdh Tj = +12 °C 0.900 Pdh Tj = Tbiv 7.48 kW COP Tj = Tbiv 2.04 Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL 7.48 kW < Tdesignh	•	2.75 kW
Pdh Tj = 12°C 2.92 kW COP Tj = 12°C 5.36 Cdh Tj = +12 °C 0.900 Pdh Tj = Tbiv 7.48 kW COP Tj = Tbiv 2.04 Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL 7.48 kW < Tdesignh	$COP Tj = +7^{\circ}C$	4.25
COP Tj = 12°C	Cdh Tj = +7 °C	0.900
Cdh Tj = +12 °C 0.900 Pdh Tj = Tbiv 7.48 kW COP Tj = Tbiv 2.04 Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL 7.48 kW < Tdesignh	Pdh Tj = 12° C	2.92 kW
Pdh Tj = Tbiv 7.48 kW COP Tj = Tbiv 2.04 Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL 7.48 kW < Tdesignh COP Tj = TOL or COP Tj = Tdesignh if TOL 2.04 < Tdesignh Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL 0.900 < Tdesignh WTOL 67 °C Poff 14 W PTO 14 W PSB 14 W PCK 14 W Supplementary Heater: Type of energy input Supplementary Heater: PSUP 0.32 kW	COP Tj = 12°C	5.36
COP Tj = Tbiv Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL Tdesignh COP Tj = TOL or COP Tj = Tdesignh if TOL Tdesignh Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL Tdesignh Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL Tdesignh WTOL Poff Poff 14 W PTO 14 W PSB PCK Supplementary Heater: Type of energy input Supplementary Heater: PSUP 0.32 kW	Cdh Tj = +12 °C	0.900
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh WTOL Poff Poff 14 W PTO 14 W PSB PCK Supplementary Heater: Type of energy input Supplementary Heater: PSUP 7.48 kW 7.48 kW 7.48 kW 7.48 kW 7.48 kW 7.48 kW 8.0900 4.0000 4.0000 6.7 °C 7.48 kW 8.0900 8.00000 8.00000 8.00000 8.00000 8.00000 8.0	Pdh Tj = Tbiv	7.48 kW
< Tdesignh COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh WTOL Poff Poff PTO PSB PCK Supplementary Heater: Type of energy input Supplementary Heater: PSUP 0.900 67 °C POF	· · · · · · · · · · · · · · · · · · ·	
< Tdesignh Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh WTOL Poff Poff 14 W PTO PSB 14 W PCK Supplementary Heater: Type of energy input Supplementary Heater: PSUP 0.32 kW		7.48 kW
< Tdesignh WTOL 67 °C Poff 14 W PTO 14 W PSB 14 W PCK 14 W Supplementary Heater: Type of energy input Supplementary Heater: PSUP 0.32 kW		2.04
Poff 14 W PTO 14 W PSB 14 W PCK 14 W Supplementary Heater: Type of energy input Supplementary Heater: PSUP 0.32 kW		0.900
PTO 14 W PSB 14 W PCK 14 W Supplementary Heater: Type of energy input Supplementary Heater: PSUP 0.32 kW	WTOL	67 °C
PSB 14 W PCK 14 W Supplementary Heater: Type of energy input Supplementary Heater: PSUP 0.32 kW	Poff	14 W
PCK 14 W Supplementary Heater: Type of energy input Supplementary Heater: PSUP 0.32 kW	PTO	14 W
Supplementary Heater: Type of energy input Supplementary Heater: PSUP 0.32 kW	PSB	14 W
input Supplementary Heater: PSUP 0.32 kW	PCK	14 W
		Electricity
Annual energy consumption Qhe 4510 kWh	Supplementary Heater: PSUP	0.32 kW
	Annual energy consumption Qhe	4510 kWh