Product fiche concerning the COMMISSION DELEGATED REGULATIONS (EU)No 811/2013

Technical parameters for heat pump space heaters and heat pump combination heater

Model: **Bravair Vertex Pro P20**
Air-to-water heat pump: yes
Water-to-water heat pump: no
Brine-to-water heat pump: no
Low-temperature heat pump: no
Equipped with a supplementary heater: no
Heat pump combination heater: no

Water outlet temperature: 35°C

Parameters shall be declared for low-temperature application.
Parameters shall be declared for warmer climate conditions.

Item	Symbol	Value	Unit
Rated heat output (*)	*Prated*	7,00	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j			
T_j = + 2 °C	*Pdh*	7,04	kW
T_j = + 7 °C	*Pdh*	4,60	kW
T_j = + 12 °C	*Pdh*	2,51	kW
T_j = bivalent temperature °C	*Pdh*	7,04	kW
Bivalent temperature	T_{biv}	2	°C
Degradation co-efficient (**)	*Cdh*	0.9	-
Power consumption in modes other than active mode			
Off mode	P_{OFF}	0,01	kW
Thermostat-off mode	P_{TO}	0,01	kW
Standby mode	P_{SB}	0,01	kW
Crankcase heater mode	P_{CK}	0,04	kW
Supplementary heater			
Rated heat output (**)	Psup	-	kW

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η_S	277,4	**%**
Declared coefficient of performance or primary energyratio for part load at indoor temperature 20 °C and outdoor temperature T_j			
T_j = + 2 °C	*COPd*	4,89	-
T_j = + 7 °C	*COPd*	6,58	-
T_j = + 12 °C	*COPd*	8,47	-
T_j = bivalent temperature °C	*COPd*	4,89	-
Operation limit temperature	*TOL*	2	°C
Heating water operating limit temperature	*WTOL*	80	°C
Other items			
Capacity control		variable	
Sound power level, indoors/outdoors	L_{WA}	- /47	dB
Annual energy consumption	Q_{HE}	1334	kWh
Rated airflow rate, outdoors	-	3700	m^3/h
Seasonal Coefficient of Performance	SCOP	7,01	-

Water outlet temperature: 55°C

Parameters shall be declared for medium-temperature application.
Parameters shall be declared for warmer climate conditions.

Item	Symbol	Value	Unit
Rated heat output (*)	*Prated*	6,0	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j			
T_j = + 2 °C	*Pdh*	6,0	kW
T_j = + 7 °C	*Pdh*	3,86	kW
T_j = + 12 °C	*Pdh*	1,71	kW
T_j = bivalent temperature °C	*Pdh*	6,0	kW
Bivalent temperature	T_{biv}	2	°C
Degradation co-efficient (**)	*Cdh*	0.9	-
Power consumption in modes other than active mode			
Off mode	P_{OFF}	0,01	kW
Thermostat-off mode	P_{TO}	0,01	kW
Standby mode	P_{SB}	0,01	kW
Crankcase heater mode	P_{CK}	0,04	kW
Supplementary heater			
Rated heat output (**)	Psup	-	kW

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η_S	191,1	**%**
Declared coefficient of performance or primary energyratio for part load at indoor temperature 20 °C and outdoor temperature T_j			
T_j = + 2 °C	*COPd*	2,91	-
T_j = + 7 °C	*COPd*	3,88	-
T_j = + 12 °C	*COPd*	6,50	-
T_j = bivalent temperature °C	*COPd*	2,91	-
Operation limit temperature	*TOL*	2	°C
Heating water operating limit temperature	*WTOL*	80	°C
Other items			
Capacity control		variable	
Sound power level, indoors/outdoors	L_{WA}	- /48	dB
Annual energy consumption	Q_{HE}	1652	kWh
Rated airflow rate, outdoors	-	3700	m³/h
Seasonal Coefficient of Performance	SCOP	4,85	-

Contact details	ALKYON S.A. Parallel of Egnatia Street, Diavata Junction Thessaloniki, Greece

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).
(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

Product fiche concerning the COMMISSION DELEGATED REGULATIONS (EU)No 811/2013

Technical parameters for heat pump space heaters and heat pump combination heater

Model: **Bravair Vertex Pro P40**
Air-to-water heat pump: yes
Water-to-water heat pump: no
Brine-to-water heat pump: no
Low-temperature heat pump: no
Equipped with a supplementary heater: no
Heat pump combination heater: no

Water outlet temperature: 35°C

Parameters shall be declared for low-temperature application.
Parameters shall be declared for warmer climate conditions.

Item	Symbol	Value	Unit
Rated heat output (*)	*Prated*	13,0	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j			
T_j = + 2 °C	*Pdh*	13,0	kW
T_j = + 7 °C	*Pdh*	8,36	kW
T_j = + 12 °C	*Pdh*	3,71	kW
T_j = bivalent temperature °C	*Pdh*	13,0	kW
Bivalent temperature	T_{biv}	2	°C
Degradation co-efficient (**)	*Cdh*	0.9	-
Power consumption in modes other than active mode			
Off mode	P_{OFF}	0,01	kW
Thermostat-off mode	P_{TO}	0,01	kW
Standby mode	P_{SB}	0,01	kW
Crankcase heater mode	P_{CK}	0,04	kW
Supplementary heater			
Rated heat output (**)	Psup	-	kW

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η_S	269,7	**%**
Declared coefficient of performance or primary energyratio for part load at indoor temperature 20 °C and outdoor temperature T_j			
T_j = + 2 °C	*COPd*	3,54	-
T_j = + 7 °C	*COPd*	5,92	-
T_j = + 12 °C	*COPd*	8,61	-
T_j = bivalent temperature °C	*COPd*	3,54	-
Operation limit temperature	*TOL*	2	°C
Heating water operating limit temperature	*WTOL*	80	°C
Other items			
Capacity control		variable	
Sound power level, indoors/outdoors	L_{WA}	- /5 0	dB
Annual energy consumption	Q_{HE}	2548	kWh
Rated airflow rate, outdoors	-	5000	m^3/h
Seasonal Coefficient of Performance	SCOP	6,82	-

Water outlet temperature: 55°C

Parameters shall be declared for medium-temperature application.
Parameters shall be declared for warmer climate conditions.

Item	Symbol	Value	Unit
Rated heat output (*)	*Prated*	13,0	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j			
T_j = + 2 °C	*Pdh*	13,0	kW
T_j = + 7 °C	*Pdh*	8,36	kW
T_j = + 12 °C	*Pdh*	3,71	kW
T_j = bivalent temperature °C	*Pdh*	13,0	kW
Bivalent temperature	T_{biv}	2	°C
Degradation co-efficient (**)	*Cdh*	0.9	-
Power consumption in modes other than active mode			
Off mode	P_{OFF}	0,01	kW
Thermostat-off mode	P_{TO}	0,01	kW
Standby mode	P_{SB}	0,01	kW
Crankcase heater mode	P_{CK}	0,04	kW
Supplementary heater			
Rated heat output (**)	Psup	-	kW

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η_S	185,8	**%**
Declared coefficient of performance or primary energyratio for part load at indoor temperature 20 °C and outdoor temperature T_j			
T_j = + 2 °C	*COPd*	2,59	-
T_j = + 7 °C	*COPd*	3,65	-
T_j = + 12 °C	*COPd*	6,62	-
T_j = bivalent temperature °C	*COPd*	2,59	-
Operation limit temperature	*TOL*	2	°C
Heating water operating limit temperature	*WTOL*	80	°C
Other items			
Capacity control		variable	
Sound power level, indoors/outdoors	L_{WA}	- /51	dB
Annual energy consumption	Q_{HE}	3679	kWh
Rated airflow rate, outdoors	-	5000	m^3/h
Seasonal Coefficient of Performance	SCOP	4,72	-

Contact details	ALKYON S.A. Parallel of Egnatia Street, Diavata Junction Thessaloniki, Greece

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).
(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

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Technical parameters for heat pump space heaters and heat pump combination heater

Model: **Bravair Vertex Pro P40S**
Air-to-water heat pump: yes
Water-to-water heat pump: no
Brine-to-water heat pump: no
Low-temperature heat pump: no
Equipped with a supplementary heater: no
Heat pump combination heater: no

Water outlet temperature: 35°C

Parameters shall be declared for low-temperature application.
Parameters shall be declared for warmer climate conditions.

Item	Symbol	Value	Unit
Rated heat output (*)	*Prated*	13,0	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j			
T_j = + 2 °C	*Pdh*	13,0	kW
T_j = + 7 °C	*Pdh*	8,36	kW
T_j = + 12 °C	*Pdh*	3,71	kW
T_j = bivalent temperature °C	*Pdh*	13,0	kW
Bivalent temperature	T_{biv}	2	°C
Degradation co-efficient (**)	*Cdh*	0.9	-
Power consumption in modes other than active mode			
Off mode	P_{OFF}	0,01	kW
Thermostat-off mode	P_{TO}	0,01	kW
Standby mode	P_{SB}	0,01	kW
Crankcase heater mode	P_{CK}	0,04	kW
Supplementary heater			
Rated heat output (**)	Psup	-	kW

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η_S	269,3	**%**
Declared coefficient of performance or primary energyratio for part load at indoor temperature 20 °C and outdoor temperature T_j			
T_j = + 2 °C	*COPd*	3,61	-
T_j = + 7 °C	*COPd*	5,90	-
T_j = + 12 °C	*COPd*	8,58	-
T_j = bivalent temperature °C	*COPd*	3,61	-
Operation limit temperature	*TOL*	2	°C
Heating water operating limit temperature	*WTOL*	80	°C
Other items			
Capacity control		variable	
Sound power level, indoors/outdoors	L_{WA}	- /5 0	dB
Annual energy consumption	Q_{HE}	2552	kWh
Rated airflow rate, outdoors	-	5000	m^3/h
Seasonal Coefficient of Performance	SCOP	6,81	-

Water outlet temperature: 55°C

Parameters shall be declared for medium-temperature application.
Parameters shall be declared for warmer climate conditions.

Item	Symbol	Value	Unit
Rated heat output (*)	*Prated*	13,0	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j			
T_j = + 2 °C	*Pdh*	13,0	kW
T_j = + 7 °C	*Pdh*	8,36	kW
T_j = + 12 °C	*Pdh*	3,71	kW
T_j = bivalent temperature °C	*Pdh*	13,0	kW
Bivalent temperature	T_{biv}	2	°C
Degradation co-efficient (**)	*Cdh*	0.9	-
Power consumption in modes other than active mode			
Off mode	P_{OFF}	0,01	kW
Thermostat-off mode	P_{TO}	0,01	kW
Standby mode	P_{SB}	0,01	kW
Crankcase heater mode	P_{CK}	0,04	kW
Supplementary heater			
Rated heat output (**)	Psup	-	kW

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η_S	185,1	%
Declared coefficient of performance or primary energyratio for part load at indoor temperature 20 °C and outdoor temperature T_j			
T_j = + 2 °C	*COPd*	2,70	-
T_j = + 7 °C	*COPd*	3,61	-
T_j = + 12 °C	*COPd*	6,58	-
T_j = bivalent temperature °C	*COPd*	2,70	-
Operation limit temperature	*TOL*	2	°C
Heating water operating limit temperature	*WTOL*	80	°C
Other items			
Capacity control		variable	
Sound power level, indoors/outdoors	L_{WA}	- /51	dB
Annual energy consumption	Q_{HE}	3694	kWh
Rated airflow rate, outdoors	-	5000	m³/h
Seasonal Coefficient of Performance	SCOP	4,70	-

Contact details	ALKYON S.A. Parallel of Egnatia Street, Diavata Junction Thessaloniki, Greece

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ΑΡ. ΜΑΕ 65085/62/Β/08/0503 - Α.Ρ.Γ.Ε.ΜΗ. 059085604000

(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).
(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

Product fiche concerning the COMMISSION DELEGATED REGULATIONS (EU)No 811/2013

Technical parameters for heat pump space heaters and heat pump combination heater

Model: **Bravair Vertex Pro P60**
Air-to-water heat pump: yes
Water-to-water heat pump: no
Brine-to-water heat pump: no
Low-temperature heat pump: no
Equipped with a supplementary heater: no
Heat pump combination heater: no

Water outlet temperature: 35°C

Parameters shall be declared for low-temperature application.
Parameters shall be declared for warmer climate conditions.

Item	Symbol	Value	Unit
Rated heat output (*)	*Prated*	18,0	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j			
T_j = + 2 °C	*Pdh*	18,0	kW
T_j = + 7 °C	*Pdh*	11,57	kW
T_j = + 12 °C	*Pdh*	5,14	kW
T_j = bivalent temperature °C	*Pdh*	18,0	kW
Bivalent temperature	T_{biv}	2	°C
Degradation co-efficient (**)	*Cdh*	0.9	-
Power consumption in modes other than active mode			
Off mode	P_{OFF}	0,01	kW
Thermostat-off mode	P_{TO}	0,01	kW
Standby mode	P_{SB}	0,01	kW
Crankcase heater mode	P_{CK}	0,04	kW
Supplementary heater			
Rated heat output (**)	Psup	-	kW

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η_S	265,3	**%**
Declared coefficient of performance or primary energyratio for part load at indoor temperature 20 °C and outdoor temperature T_j			
T_j = + 2 °C	*COPd*	4,45	-
T_j = + 7 °C	*COPd*	5,83	-
T_j = + 12 °C	*COPd*	8,09	-
T_j = bivalent temperature °C	*COPd*	4,45	-
Operation limit temperature	*TOL*	2	°C
Heating water operating limit temperature	*WTOL*	80	°C
Other items			
Capacity control		variable	
Sound power level, indoors/outdoors	L_{WA}	- /5 0	dB
Annual energy consumption	Q_{HE}	3585	kWh
Rated airflow rate, outdoors	-	5500	m^3/h
Seasonal Coefficient of Performance	SCOP	6,71	-

Water outlet temperature: 55°C

Parameters shall be declared for medium-temperature application.
Parameters shall be declared for warmer climate conditions.

Item	Symbol	Value	Unit
Rated heat output (*)	*Prated*	17,0	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j			
T_j = + 2 °C	*Pdh*	17,0	kW
T_j = + 7 °C	*Pdh*	10,93	kW
T_j = + 12 °C	*Pdh*	4,86	kW
T_j = bivalent temperature °C	*Pdh*	17,0	kW
Bivalent temperature	T_{biv}	2	°C
Degradation co-efficient (**)	*Cdh*	0.9	-
Power consumption in modes other than active mode			
Off mode	P_{OFF}	0,01	kW
Thermostat-off mode	P_{TO}	0,01	kW
Standby mode	P_{SB}	0,01	kW
Crankcase heater mode	P_{CK}	0,04	kW
Supplementary heater			
Rated heat output (**)	Psup	-	kW

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η_S	192,9	**%**
Declared coefficient of performance or primary energyratio for part load at indoor temperature 20 °C and outdoor temperature T_j			
T_j = + 2 °C	*COPd*	3,16	-
T_j = + 7 °C	*COPd*	4,18	-
T_j = + 12 °C	*COPd*	6,03	-
T_j = bivalent temperature °C	*COPd*	3,16	-
Operation limit temperature	*TOL*	2	°C
Heating water operating limit temperature	*WTOL*	80	°C
Other items			
Capacity control		variable	
Sound power level, indoors/outdoors	L_{WA}	- /50	dB
Annual energy consumption	Q_{HE}	4638	kWh
Rated airflow rate, outdoors	-	5500	m^3/h
Seasonal Coefficient of Performance	SCOP	4,90	-

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).
(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

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Technical parameters for heat pump space heaters and heat pump combination heater

Model: **Bravair Vertex Pro P60S**
Air-to-water heat pump: yes
Water-to-water heat pump: no
Brine-to-water heat pump: no
Low-temperature heat pump: no
Equipped with a supplementary heater: no
Heat pump combination heater: no

Water outlet temperature: 35°C

Parameters shall be declared for low-temperature application.
Parameters shall be declared for warmer climate conditions.

Item	Symbol	Value	Unit
Rated heat output (*)	*Prated*	18,0	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j			
T_j = + 2 °C	*Pdh*	18,0	kW
T_j = + 7 °C	*Pdh*	11,57	kW
T_j = + 12 °C	*Pdh*	5,14	kW
T_j = bivalent temperature °C	*Pdh*	18,0	kW
Bivalent temperature	T_{biv}	2	°C
Degradation co-efficient (**)	*Cdh*	0.9	-
Power consumption in modes other than active mode			
Off mode	P_{OFF}	0,01	kW
Thermostat-off mode	P_{TO}	0,01	kW
Standby mode	P_{SB}	0,01	kW
Crankcase heater mode	P_{CK}	0,04	kW
Supplementary heater			
Rated heat output (**)	Psup	-	kW

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η_S	265,0	**%**
Declared coefficient of performance or primary energyratio for part load at indoor temperature 20 °C and outdoor temperature T_j			
T_j = + 2 °C	*COPd*	4,33	-
T_j = + 7 °C	*COPd*	5,97	-
T_j = + 12 °C	*COPd*	7,93	-
T_j = bivalent temperature °C	*COPd*	4,33	-
Operation limit temperature	*TOL*	2	°C
Heating water operating limit temperature	*WTOL*	80	°C
Other items			
Capacity control		variable	
Sound power level, indoors/outdoors	L_{WA}	- /51	dB
Annual energy consumption	Q_{HE}	3589	kWh
Rated airflow rate, outdoors	-	5500	m^3/h
Seasonal Coefficient of Performance	SCOP	6,70	-

Water outlet temperature: 55°C

Parameters shall be declared for medium-temperature application.
Parameters shall be declared for warmer climate conditions.

Item	Symbol	Value	Unit
Rated heat output (*)	*Prated*	17,0	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j			
T_j = + 2 °C	*Pdh*	17,0	kW
T_j = + 7 °C	*Pdh*	10,93	kW
T_j = + 12 °C	*Pdh*	4,86	kW
T_j = bivalent temperature °C	*Pdh*	17,0	kW
Bivalent temperature	T_{biv}	2	°C
Degradation co-efficient (**)	*Cdh*	0.9	-
Power consumption in modes other than active mode			
Off mode	P_{OFF}	0,01	kW
Thermostat-off mode	P_{TO}	0,01	kW
Standby mode	P_{SB}	0,01	kW
Crankcase heater mode	P_{CK}	0,04	kW
Supplementary heater			
Rated heat output (**)	Psup	-	kW

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η_S	192,9	**%**
Declared coefficient of performance or primary energyratio for part load at indoor temperature 20 °C and outdoor temperature T_j			
T_j = + 2 °C	*COPd*	3,16	-
T_j = + 7 °C	*COPd*	4,19	-
T_j = + 12 °C	*COPd*	6,02	-
T_j = bivalent temperature °C	*COPd*	3,16	-
Operation limit temperature	*TOL*	2	°C
Heating water operating limit temperature	*WTOL*	80	°C
Other items			
Capacity control		variable	
Sound power level, indoors/outdoors	L_{WA}	- /52	dB
Annual energy consumption	Q_{HE}	4636	kWh
Rated airflow rate, outdoors	-	5500	m³/h
Seasonal Coefficient of Performance	SCOP	4,90	-

Contact details	ALKYON S.A. Parallel of Egnatia Street, Diavata Junction Thessaloniki, Greece

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).
(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.