UNIFLAIR FREE COOLING CHILLERS

Unit Model XRAF3612A

Compressor Technology: Stepless (2 stepless compressors)
Power Supply: 400V/3ph/50Hz
Refrigerant: R513A
Noise Version: Ultraquiet
Fan Type: AcoustiComposite axial fans with EC motor
Primary Pumps: 1 pump with inverter
Additional Module: 2V DX+FC
OPTIONS
- Subcooling Economizer
- High Condensing Temperature
- Compressor suction shutoff valve
- Coils with filters

Tolerance: Standard Tolerance

Application: IT or Process cooling designed with outlet water temperature > 12°C
Units not subject to Ecodesign directives

WORKING CONDITIONS

Calculation Type	Inlet Water Temperature, Required Cooling Capacity, Outlet Water Temperature	
Required Cooling Capacity	1100	kW
Water Return Temperature	30	°C
Supply Water Temperature Setpoint	20	°C
Volumetric Water Flow Rate	106.353	m3/h
Ethylene Glycol	40	%
Fouling Factor Evaporator	0.000	m2°C/kW
Outdoor Air Temperature (Dry Bulb)	32	°C
Outdoor Air Relative Humidity	30.0	%
Altitude	0	m
Outdoor Air Wet Bulb Temperature	19.4	°C
Fans External Static Pressure	0	Pa
User side hydraulic circuit available pressure head	200	kPa

PERFORMANCE / FEATURES

GENERAL OUTPUT		
Operating Mode	Mechanical	
Actual Supply Water Temperature	20.0	°C
Total Cooling Capacity	1100.2	kW
Free Cooling Capacity	0.0	kW
Mechanical Cooling Capacity	1100.2	kW
Total Power Consumption (with primary pumps)	270.0	kW
Total Current Consumption (with primary pumps)	452.8	A
EER (with primary pumps)	4.07	kW/kW
Total Power Consumption (without primary pumps)	260.3	kW
Total Current Consumption (without primary pumps)	438.9	A
EER (without primary pumps)	4.23	kW/kW
Total water side pressure drops	41.4	kPa

The performances are obtained through theoretical calculations; therefore, they are subject to the consequent variations.

Moreover, the performances refer to the standard unit equipped as per this report: other options or modifications made on request could affect the final performances.

Weight data refer to the basic version of the unit, any additional option will affect the unit weight. Refer to technical drawings for detailed information on unit weights.

Schneider Electric - Calculation program "UNICALC" vers.11.1.11 dated 2026/04/30 (User profile profile - USER: SESA550652) - Unless otherwise specified, the performance data reported in this document shall be considered subject to standard tolerances, as defined in Schneider-Electric cooling FAT Method Statement.

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Alternative fans	Type A/C	Type A + Diffusers	Type B
Noise power level (at the actual operating condition) dB(A)	91.5	90.7	93.5
Noise pressure level at 10m in free-field conditions (at the actual operating condition) dB(A)	56.7	55.9	58.7
Noise power level (worst case scenario) dB(A)	96.5	93.9	100.3
Noise pressure level at 10m in free-field conditions (worst case scenario) dB(A)	61.7	59.1	65.5

pPUE	1.245		
Subcooling Economizer Status	OFF		
External air temperature for total free cooling	10.7		°C

TECHNICAL OUTPUT

	Circuit 1	Circuit 2	
Cooling Capacity per Circuit	550.1	550.1	kW
Number of Active Compressors per Circuit	1	1	
Compressor Absorbed Power per Circuit	123.8	123.8	kW
Compressor Absorbed Current per Circuit	209.5	209.5	A
Compressor(s) COP	4.45	4.45	kW/kW
Compressor(s) Speed	82.9	82.9	%
Fan(s) Absorbed Power per Circuit (base unit)	4.6	4.6	kW
Fan(s) Absorbed Current per Circuit (base unit)	7.1	7.1	A
Fan(s) Air Flow Rate per Circuit (base unit)	82394	82394	m3/h
Fan(s) Speed per Circuit (base unit)	70.0	70.0	%
Fan(s) Speed per Circuit (base unit)	770	770	RPM
Number of Active Fans per Circuit (base unit)	5	5	
Number of Active Condenser Coils per Circuit (base unit)	5	5	
Fan(s) Absorbed Power per Circuit (additional module)	1.8	1.8	kW
Fan(s) Absorbed Current per Circuit (additional module)	2.8	2.8	A
Fan(s) Air Flow Rate per Circuit (additional module)	32958	32958	m3/h

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Fan(s) Speed per Circuit (additional module)	70.0	70.0	%
Fan(s) Speed per Circuit (additional module)	770	770	RPM
Number of Active Fans per Circuit (additional module)	2	2	
Number of Active Condenser Coils per Circuit (additional module)	2	2	
PUMPS OUTPUT			
Primary Pumps Power Consumption	9.7		kW
Primary Pumps Current Consumption	13.9		A
Primary Pumps Additional Available Pressure Head	3.0		kPa
Primary Pumps Speed	2885.6		RPM
Free Cooling Pumps Power Consumption	0.0		kW
Free Cooling Pumps Current Consumption	0.0		A

ELECTRICAL DATA

FLA	925.9	-
LRA	1155.9	-

UNIT DIMENSIONS & WEIGHT

Total Height Including Additional Module	2532	mm
Total Height with Type A fan Including Additional Module	2700	mm
Total Height Including Additional Module (Type B Fan)	2601	mm
Total Height with Type C fan Including Additional Module	2593	mm
Total Width Including Additional Module	2201	mm
Total Length Including Additional Module	12322	mm
Total Weight Including Additional Module	14034	kg

EN14511 Performance Data

Net Cooling Capacity According to EN14511	1102.21	kW
Total Power Consumption According to EN14511	268.00	kW
EER According to EN14511	4.113	kW/kW

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