

Technical Data Manual

Hirotec / Console



**advanced
conditioning
solutions**

O/UEDA Console

AIR COOLED

Model	110	150	170
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Gross Capacity & Heat Rejection kW kW kW

24°C – 50%RH			
Total	11.2	14.5	17.1
Sensible	10.6	14.5	16.4
THR	13.5	17.7	21.0
24°C – 45%RH			
Total	11.1	14.5	17.1
Sensible	10.8	14.5	16.4
THR	13.5	17.7	21.0
22°C – 50%RH			
Total	10.7	13.9	16.4
Sensible	10.3	13.9	15.7
THR	13.0	17.0	20.3
22°C – 45%RH			
Total	10.7	13.9	16.5
Sensible	10.4	13.9	15.8
THR	12.8	17.0	19.6

Fan Section – Forward curved centrifugal fan, direct drive

Nominal airflow (l/s)	890	1360	1360
Fan motor – Nameplate (kW)	0.25	0.25	0.25
Number of fans/motors	2	3	3
External Static Pressure (Pa)	50	50	50

Evaporator Coil – Copper tubes with rifle bore, louvred aluminium fins

Face area (m ²)	0.36	0.59	0.59
No. of rows	4	4	4
Face velocity (m/s)	2.28	2.31	2.31
Drain Connection size (O.D.mm)	25	25	25

Compressor – Hermetic scroll

No. of compressors	1	1	1
Safety controls –			
HP cutout (manual reset) 26 bar, LP cutout (auto reset) 0.7 bar			
Input power for 1 compressor (kW)	2.4	3.2	3.9

Humidifier – Immersed electrode

Capacity (kg/h)	Max 5	Max 5	Max 5
Input power (kW)	3.6	3.6	3.6
Water supply pressure range (kPa)	100-1000	100-1000	100-1000
Connection drain (BSPF)	3/4"	3/4"	3/4"
Connection supply (BSPM)	3/4"	3/4"	3/4"

O/UEDA Console

AIR COOLED

Model	110	150	170
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Filter – Dry media disposable

No. of filters	1	1	1
Size (mm) OEDA	845x486x50	1345x486x50	1345x486x50
Size (mm) UEDA	845x486x50	1345x486x50	1345x486x50
Efficiency to AS 1132, Part 2	EU4	EU4	EU4

Heaters – Finned Tubular Element

Standard capacity (kW)	5	5	5
No. of stages	1	1	1

Controls

Standard Controls	Datalogic Electronic
Optional Controls	Datalogic Graphic Electronic
(See controls section 8 for details)	

Electrical Data

Supply (Volts/Hz/Phases)	415/50/3	415/50/3	415/50/3
Full load current (Amps) (includes condenser)	19.3	25.5	26.5

Physical Details

Width x height x depth (mm)	1520x1120x490	2020x1120x490	
Weight (kg)	250	310	315

Air cooled condenser selection – Factory Matched (ACN Series)

No. of condensers	1	1	1
Standard model	ACN 400	ACN 500	ACN 600

Selection based on 35°C ambient temperature

Sound Pressure dB(A)	56	59	61
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Sound Pressure level measured 1 metre in front of the unit in free field with ducted air distribution (over), air distribution through raised floor (under)

Available with Refrigerant R407C. Contact your Hirotec sales office for details.

Development is continuous and Hirotec Technologies reserves the right to make changes to any stated figure without notice

O/UEDW Console

WATER COOLED

Model

110 150 170

Gross Capacity and Heat Rejection

kW kW kW

24°C – 50%RH

Total	11.7	14.9	17.7
Sensible	10.8	14.9	16.5
THR	13.7	17.7	21.1

24°C – 45%RH

Total	11.2	14.8	17.2
Sensible	11.2	14.7	17.2
THR	13.4	17.6	20.6

22°C – 50%RH

Total	11.0	14.4	16.7
Sensible	10.5	14.3	15.9
THR	13.2	17.2	20.1

22°C – 45%RH

Total	10.7	14.0	16.6
Sensible	10.7	14.0	16.6
THR	12.9	16.8	20.0

Based on 30°C EWT & 35.5°C LWT

Fan Section – Forward curved centrifugal fan, direct drive

Nominal airflow (l/s)	890	1360	1360
Fan motor – Nameplate (kW)	0.25	0.25	0.25
Number of fans/motors	2	3	3
External Static Pressure (Pa)	50	50	50

Evaporator Coil – Copper tubes with rifle bore, louvred aluminium fins

Face area (m ²)	0.36	0.59	0.59
No. of rows	4	4	4
Face velocity (m/s)	2.28	2.31	2.31
Drain Connection size (O.D.mm)	25	25	25

Compressor – Hermetic scroll

No. of compressors	1	1	1
Safety controls –			
HP cutout (manual reset) 26 bar, LP cutout (auto reset) 0.7 bar			
Input power for 1 compressor (kW)	2.0	2.8	3.4

Humidifier – Immersed electrode

Capacity (kg/h)	Max 5	Max 5	Max 5
Input power (kW)	3.6	3.6	3.6
Water supply pressure range	100-1000 (kPa)		
Connection drain (BSPF)	3/4"	3/4"	3/4"
Connection supply (BSPM)	3/4"	3/4"	3/4"

O/UEDW Console

WATER COOLED

Model

110 150 170

Filter – Dry media disposable

No. of filters	1	1	1
Size (mm) OEDW		1345x486x50	
Size (mm) UEDW		1345x486x50	
Efficiency to AS 1132, Part 2	EU4	EU4	EU4

Heaters – Finned Tubular Element

Standard capacity (kW)	5	5	5
No. of stages	1	1	1

Controls

Standard Controls:	Datalogic Electronic
Optional Controls	Datalogic Graphic Electronic
<small>(See controls section 8 for details)</small>	

Electrical Data

Supply (Volts/Hz/Phases)	415/50/3	415/50/3	415/50/3
Full load current (Amps)	16.9	21.8	22.8

Physical Details

Width x height x depth (mm)	2020x1120x490		
Weight (kg)	263	323	328

Water cooled Condenser – Brazed plate heat exchanger

No. of condensers	1	1	1
Total water flow (l/s)	0.55	0.74	0.84
Pressure drop per condenser (kPa)	61	39	51
Maximum water pressure (kPa)	1000	1000	1000
Water regulation valves	2 way	2 way	2 way
Connection – water in (BSPF)	1"	1"	1"
water out (BSPF)	½"	¾"	¾"

Sound Pressure dB(A)	56	59	61
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Sound Pressure level measured 1 metre in front of the unit in free field with ducted air distribution (over), air distribution through raised floor (under)

Available with R407C Refrigerant. Contact your Hirotec sales office for details

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Performance and Technical Data

O/UFC Console
Model

CHILLED WATER
110 170

Performance and Technical Data

O/UFC Console Model

CHILLED WATER

110 170

Gross Capacity - Based on 7/12 Chilled Water Temperatures kW kW

24°C – 50%RH

Total	12.0	19.5
Sensible	10.8	17.5

24°C – 45%RH

Total	10.5	16.7
Sensible	10.5	16.7

22°C – 50%RH

Total	8.9	13.6
Sensible	8.9	13.6

22°C – 45%RH

Total	8.9	13.6
Sensible	8.9	13.6

Fan Section – Forward curved centrifugal fan, direct drive

Nominal airflow (l/s)	990	1360
Fan motor – Nameplate (kW)	0.25	0.25
Number of fans/motors	2	3
External Static Pressure (Pa)	50	50

Evaporator Coil – Copper tubes with louvred aluminium fins

Face area (m ²)	0.36	0.59
No. of rows	4	4
Face velocity (m/s)	2.28	2.31
Drain Connection size (O.D.mm)	25	25

Chilled Water Details

Chilled water flow (l/s)	0.57	0.93
Unit Water Pressure Drop (kPa)	43	56
Chilled Water Connections		
Flow (BSPF)	1"	1"
Return (BSPM)	1"	1"

Performance and Technical Data

O/UFC Console Model

CHILLED WATER

110 170

Humidifier – Immersed electrode

Capacity (kg/h)	Max 5	Max 5
Input power (kW)	3.6	3.6
Water supply pressure range (kPa)	100-1000	
Connection drain (BSPF)	3/4"	3/4"
Connection supply (BSPM)	3/4"	3/4"

Filter – Dry media disposable

No. of filters	1	1
Size (mm) OFC	1345x486x50	
Size (mm) UFC	1345x486x50	
Efficiency to AS 1132, Part 2	EU4	EU4

Heaters – Finned Tubular Element

Standard capacity (kW)	5	5
No. of stages	1	1

Controls

Standard Controls	Datalogic Electronic
Optional Controls	Datalogic Graphic Electronic

(See controls section 8 for details)

Electrical Data

Supply (Volts/Hz/Phases)	415/50/3	415/50/3
Full load current (Amps)	15.8	19.2

Physical Details

Width x height x depth (mm)	2020x1120x490	
Weight (kg)	215	265

Sound Pressure dB(A)	54	59
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Sound Pressure level measured 1 metre in front of the unit in free field with ducted air distribution (over), air distribution through raised floor (under)

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