

Technical Data Manual

Hirotec / *DAT'Air Minidat*

**advanced
conditioning
solutions**



O/UEDA Minidat Model	AIR COOLED	
	50	80

Gross Capacity & Heat Rejection	kW	kW
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24°C – 50%RH		
Total	6.1	9.0
Sensible	5.5	7.7
THR	7.6	11.1
24°C – 45%RH		
Total	5.9	8.7
Sensible	5.7	8.2
THR	7.4	10.9
22°C – 50%RH		
Total	5.8	8.4
Sensible	5.3	7.5
THR	7.2	10.6
22°C – 45%RH		
Total	5.7	8.3
Sensible	5.5	8.0
THR	7.2	10.4

Fan Section – Forward curved centrifugal fan, direct drive

Nominal airflow (l/s)	444	556
Fan motor – Nameplate (kW)	0.37	0.37
Number of fans/motors	1	1
External Static Pressure (Pa)	50	50

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

Face area (m ²)	0.26	0.26
No. of rows	3	4
Face velocity (m/s)	1.71	2.1
Drain Connection size (O.D.mm)	25	25

Compressor – Hermetic scroll

No. of compressors	1	1
Safety controls –		
HP cutout (manual reset) 26 bar, LP cutout (auto reset) 0.7 bar		
Input power for 1 compressor (kW)	1.5	2.2

Humidifier – Immersed electrode

Capacity (kg/h)	Max 2	Max 2
Input power (kW)	1.5	1.5
Water supply pressure range (kPa)	100-1000	
Connection drain (BSPF)	3/4"	3/4"
Connection supply (BSPM)	3/4"	3/4"

O/UEDA Minidat Model

AIR COOLED

	50	80
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Filter – Dry media disposable

No. of filters	1	1
Size (mm) OEDA	527x578x25	
Size (mm) UEDA	527x578x25	
Efficiency to AS 1132, Part 2	EU4	EU4

Heaters – Finned Tubular Element

Standard capacity (kW)	3	3
No. of stages	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)	240/50/1	240/50/1
Full load current (Amps) (includes condenser)	27.5	32.0

Physical Details

Width x height x depth (mm)	600x1750x450
Weight (kg)	150 155

Air cooled condenser selection – Factory Matched (ACN Series)

No. of condensers	1	1
Standard model	ACN 200	ACN 300

Selection based on 35°C ambient temperature

Sound Pressure dB(A)	46	48
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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 you Hirotec sales office for details.

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

O/UEDW Minidat

WATER COOLED

Model

50 80

Gross Capacity and Heat Rejection

kW kW

24°C – 50%RH

Total	6.3	9.4
Sensible	5.4	7.6
THR	7.6	11.3

24°C – 45%RH

Total	6.2	8.8
Sensible	5.9	8.3
THR	7.4	10.7

22°C – 50%RH

Total	6.0	8.4
Sensible	5.5	7.8
THR	7.2	10.3

22°C – 45%RH

Total	5.8	8.1
Sensible	5.8	8.1
THR	7.0	10.0

Based on 30°C EWT & 35.5°C LWT

Fan Section – Forward curved centrifugal fan, direct drive

Nominal airflow (l/s)	444	556
Fan motor – Nameplate (kW)	0.37	0.37
Number of fans/motors	1	1
External Static Pressure (Pa)	50	50

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

Face area (m ²)	0.26	0.26
No. of rows	3	4
Face velocity (m/s)	1.71	2.1
Drain Connection size (O.D.mm)	25	25

Compressor – Hermetic scroll

No. of compressors	1	1
Safety controls –		
HP cutout (manual reset) 26 bar, LP cutout (auto reset) 0.7 bar		
Input power for 1 compressor (kW)	1.3	1.9

Humidifier – Immersed electrode

Capacity (kg/h)	Max 2	Max 2
Input power (kW)	1.5	1.5
Water supply pressure range	100-1000(kPa)	
Connection drain (BSPF)	3/4"	3/4"
Connection supply (BSPM)	3/4"	3/4"

Performance and Technical Data

O/UFC Minidat Model

CHILLED WATER

50 80

Gross Capacity

- Based on 7/12 Chilled Water Temperatures

kW

kW

24°C – 50%RH

Total

6.3

8.8

Sensible

5.5

7.6

24°C – 45%RH

Total

5.2

7.4

Sensible

5.2

7.4

22°C – 50%RH

Total

4.4

6.3

Sensible

4.4

6.3

22°C – 45%RH

Total

4.4

6.3

Sensible

4.4

6.3

Fan Section – Forward curved centrifugal fan, direct drive

Nominal airflow (l/s)

444

556

Fan motor – Nameplate (kW)

0.37

0.37

Number of fans/motors

1

1

External Static Pressure (Pa)

50

50

Evaporator Coil – Copper tubes with louvred aluminium fins

Face area (m²)

0.26

0.26

No. of rows

3

4

Face velocity (m/s)

1.70

2.1

Drain Connection size (O.D.mm)

25

25

Chilled Water Details

Chilled water flow (l/s)

0.3

0.42

Unit Water Pressure Drop (kPa)

32

34

Chilled Water Connections

Flow (BSPF)

3/4"

3/4"

Return (BSPM)

3/4"

3/4"

Performance and Technical Data

O/UFC Minidat Model

CHILLED WATER

50 80

Humidifier – Immersed electrode

Capacity (kg/h)	Max 2	Max 2
Input power (kW)	1.5	1.5
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	527x578x25	
Size (mm) UFC	527x578x25	
Efficiency to AS 1132, Part 2	EU4	EU4

Heaters – Finned Tubular Element

Standard capacity (kW)	3	3
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)	240/50/1	240/50/1
Full load current (Amps)	22.0	22.0

Physical Details

Width x height x depth (mm)	600x1750x450	
Weight (kg)	110	115

Sound Pressure dB(A)	44	45
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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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