

Low Noise FCU 3 rows, 2 pipes

UDSR		400C	500C	600C	800C	
Air Flow m³/h	High	680	850	1020	1360	
	Medium	510	640	780	1030	
	Low	340	450	560	740	
Total Cooling Capacity W	High	4020	4850	6010	7950	
	Medium	3540	4070	5050	6670	
	Low	2925	3200	4385	5570	
Sensible Cooling Capacity W	High	2970	3485	4455	5475	
	Medium	2500	2860	3790	4540	
	Low	1995	2160	3070	3665	
Heating Capacity W		High	6250	7630	9020	12120
Rated Power Input (AC Motor) W	12Pa	High	49	75	80	132
		Medium	42	65	70	115
		Low	36	55	58	100
	30Pa	High	72	85	100	155
		Medium	63	72	88	140
		Low	52	65	75	115
Rated Power Input (DC Motor) W	12Pa	High	31	43	55	75
		Medium	15	24	28	33
		Low	9	12	15	19
	30Pa	High	47	57	79	89
		Medium	20	28	34	41
		Low	10	14	17	25
Sound Pressure Level dB(A)	12Pa	High	37	39	41	43
		Medium	30	31	35	33.5
		Low	22	23.5	29	25
	30Pa	High	40.5	42.5	43	45.5
		Medium	32	34.5	39	36.5
		Low	23	26	30	28
Fan	Type	Centrifugal (Blade: Forward-Curved)				
	Quantity	2	2	2	3	
Motor	Type	AC	Split-capacitor motor with ball bearing			
		DC	Brushless DC Motor (built-in AC-DC conversion module)			
	Insulation Class		B			
	Protection Class		IP20			
	Power Supply		220V~50Hz			
	Quantity		1	1	1	2
Coil	Type	Seamless copper tube mechanically bonded to aluminum hydrophilic fin				
	Max. Working Pressure MPa	1.6				
	Pipe Connection	Rc3/4 (Taper Pipe Female Threaded)				
	Water Flow Rate m³/h	0.73	0.86	1.07	1.39	
Water Resistance	Cooling Mode kPa	30	30	40	35	
	Heating Mode kPa	25	25	35	30	
Condensate Drain Pan	Pipe Connection	Rc3/4 (Taper Pipe Male Threaded)				
Dimension (Without return air plenum)	L mm	925	1005	1205	1485	
	W mm	490	490	515	515	
	H mm	250	250	275	275	
Net Weight (AC) kg	Without plenum box kg	17	17.5	19.5	26	
	With plenum box kg	19.9	20.6	22.9	30.4	
Net Weight (DC) kg	Without plenum box kg	16.7	17	19.1	25.5	
	With plenum box kg	19.6	20.1	22.5	29.9	

Note:

1. Cooling capacity is based on the following:

- a) Water temperature : 7°C (inlet)/12°C (outlet)
- b) Air entering condition : 27°C DB/19.5°C WB

2. Heating capacity is based on the following (with same water flow rate as cooling cycle):

- a) Water temperature : 60°C (inlet)
- b) Air entering condition : 21°C DB

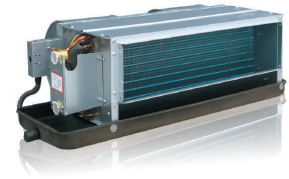
3. Low ESP means 0Pa with air vent & filter and 12Pa without air vent& filter.

4. The air volume is tested under entering air condition of 20°C DB and dry coil condition.

5. The sound pressure level is based on 11.5dB(A) hemi-anechoic room background noise.

6. Can adjust left or right direction at site, but correct cooling & heating capacity must multiply correction factor 0.9 after adjustment.

7. The manufacturer reserves the rights to make changes to the above specifications without prior notice.



Low Noise FCU 4 rows 2 pipes

Model UDSR		400C	500C	600C	800C	
Air Flow m ³ /h	High	680	850	1020	1360	
	Medium	510	640	780	1030	
	Low	340	450	560	740	
Total Cooling Capacity W	High	4950	5900	7300	9600	
	Medium	4250	5150	6280	8250	
	Low	3550	4200	5300	6900	
Sensible Cooling Capacity W	High	3500	4150	5240	6820	
	Medium	2900	3540	4450	5760	
	Low	2300	2750	3500	4500	
Heating Capacity W		High	7900	9500	11800	15500
Rated Power Input W	12Pa	High	49	75	92	115
		Medium	40	56	80	105
		Low	35	45	70	95
	30Pa	High	72	87	107	155
		Medium	60	70	90	122
		Low	50	60	70	100
Sound Pressure Level dB(A)	12Pa	High	38	41	43	43
		Medium	33	34	38.5	39
		Low	25	27	31	30
	30Pa	High	41.5	44	44.5	46
		Medium	35	36	39.5	40
		Low	27	29	32	31
Fan	Type		Centrifugal (Galvanized Steel Multi Blade:Forward-Curved)			
	Quantity		2	2	2	3
Motor	Type	AC	Split-capacitor motor with ball bearing			
		DC	Brushless DC Motor (built-in AC-DC conversion module)			
	Insulation Class		B			
	Protection Class		IP20			
	Power Supply		220V~50Hz			
	Quantity		1	1	1	2
Coil	Type		Seamless copper tube mechanically bonded to aluminum hydrophilic fin			
	Max. Working Pressure MPa		1.6			
	Pipe Connection		Rc3/4(Taper Pipe Female Threaded)			
	Water Flow Rate m ³ /h		0.88	1.06	1.31	1.72
Water Pressure Drop kPa	(Cooling) kPa		25	25	30	35
	(Heating) kPa		20	20	25	30
Condensate Drain Pan	Pipe Connection		R 3/4 (Taper Pipe Male Threaded)			
Dimension (Without return air plenum)	Length mm		925	1005	1205	1485
	Width mm		490	490	515	515
	Height mm		250	250	275	275
Net Weight	(Without return air plenum) kg		18.5	19.5	23	29
	(With return air plenum) kg		21.4	22.6	26.4	33.4

Note:

- Cooling capacity is based on the following:
 - Water temperature : 7°C (inlet)/12°C (outlet)
 - Air entering condition : 27°C DB/19.5°C WB
- Heating capacity is based on the following (with same water flow rate as cooling cycle):
 - Water temperature : 60°C (inlet)
 - Air entering condition : 21°C DB
- Low ESP means 0Pa with air vent & filter and 12Pa without air vent& filter.
- The air volume is tested under entering air condition of 20°C DB and dry coil condition.
- The sound pressure level is based on 11.5dB(A) hemi-anechoic room background noise.
- Can adjust left or right direction at site, but correct cooling & heating capacity must multiply correction factor 0.9 after adjustment.
- The manufacturer reserves the rights to make changes to the above specifications without prior notice.



Low Noise FCU 3+1 rows 4 pipes

UDSR		400C	500C	600C	800C	
Air Flow m ³ /h	High	680	850	1020	1360	
	Medium	510	640	780	1030	
	Low	340	450	560	740	
Total Cooling Capacity W	High	4020	4850	6010	7950	
	Medium	3350	4200	5280	6735	
	Low	2445	3270	4105	5260	
Sensible Cooling Capacity W	High	2830	3400	4180	5590	
	Medium	2300	2900	3610	4660	
	Low	1655	2200	2750	3560	
Heating Capacity W		High	4090	4800	5690	7700
Rated Power Input (AC Motor) W	12Pa	High	49	75	92	115
		Medium	40	56	80	105
		Low	35	45	70	95
	30Pa	High	72	87	107	155
		Medium	60	70	90	122
		Low	50	60	70	100
Sound Pressure Level dB(A)	12Pa	High	38	41	43	43
		Medium	33	34	38.5	39
		Low	25	27	31	30
	30Pa	High	41.5	44	44.5	46
		Medium	35	36	39.5	40
		Low	27	29	32	31
Fan	Type	Centrifugal (Blade: Forward-Curved)				
	Quantity	2	2	2	3	
Motor	Type	AC	Split-capacitor motor with ball bearing			
		DC	Brushless DC Motor (built-in AC-DC conversion module)			
	Insulation Class	B				
	Protection Class	IP20				
	Power Supply	220V~50Hz				
	Quantity	1	1	1	2	
Coil	Type	Seamless copper tube mechanically bonded to aluminum hydrophilic fin				
	Max. Working Pressure MPa	1.6				
	Pipe Connection	Rc3/4 (Taper Pipe Female Threaded)				
Water Flow Rate m ³ /h	Cooling Mode m ³ /h	0.74	0.87	1.07	1.41	
	Heating Mode m ³ /h	0.31	0.42	0.49	0.66	
Water Pressure Drop	Cooling Mode kPa	30	30	40	40	
	Heating Mode kPa	20	30	20	35	
Condensate Drain Pan	Pipe Connection	Rc3/4 (Taper Pipe Male Threaded)				
Dimension (Without return air plenum)	L mm	925	1005	1205	1485	
	W mm	490	490	515	515	
	H mm	250	250	275	275	
Net Weight (AC) kg	Without plenum box kg	18.5	19.5	23	29	
	With plenum box kg	21.4	22.6	26.4	33.4	

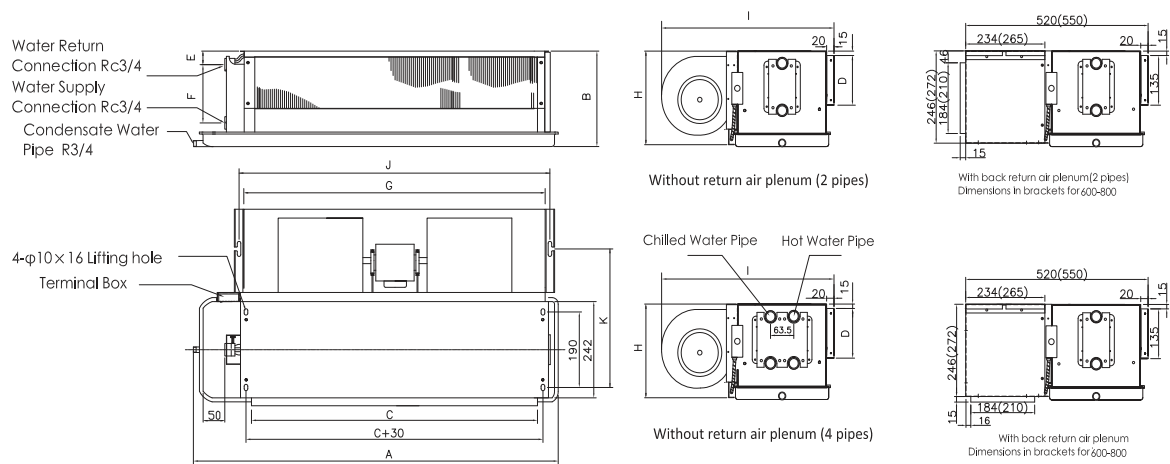
Note:

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 - Water temperature : 7°C (inlet)/12°C (outlet)
 - Air entering condition : 27°C DB/19.5°C WB
- Heating capacity is based on the following (with same water flow rate as cooling cycle):
 - Water temperature : 60°C (inlet)
 - Air entering condition : 21°C DB
- Low ESP means 0Pa with air vent & filter and 12Pa without air vent& filter.
- The air volume is tested under entering air condition of 20°C DB and dry coil condition.
- The sound pressure level is based on 11.5dB(A) hemi-anechoic room background noise.
- Can adjust left or right direction at site, but correct cooling & heating capacity must multiply correction factor 0.9 after adjustment.
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Dimension



Ceiling Concealed Low Noise FCU UDSR Series



UDSR	A	B	C	D	E	F	G	H	I	J	K	Motor Quantity	Fan Quantity
400C	925	250	690	135	54	160	732	245	490	759	357	1	2
500C	1005	250	770	135	54	160	812	245	490	839	357	1	2
600C	1205	275	970	135	54	160	1012	270	515	1039	372	1	2
800C	1485	275	1215	135	54	160	1257	270	515	1284	372	2	3
UDSR		Length of return air plenum					Length of plenum wind-gap						
400		745.6					677						
500		815.6					757						
600		1015.6					957						
800		1260.6					1202						