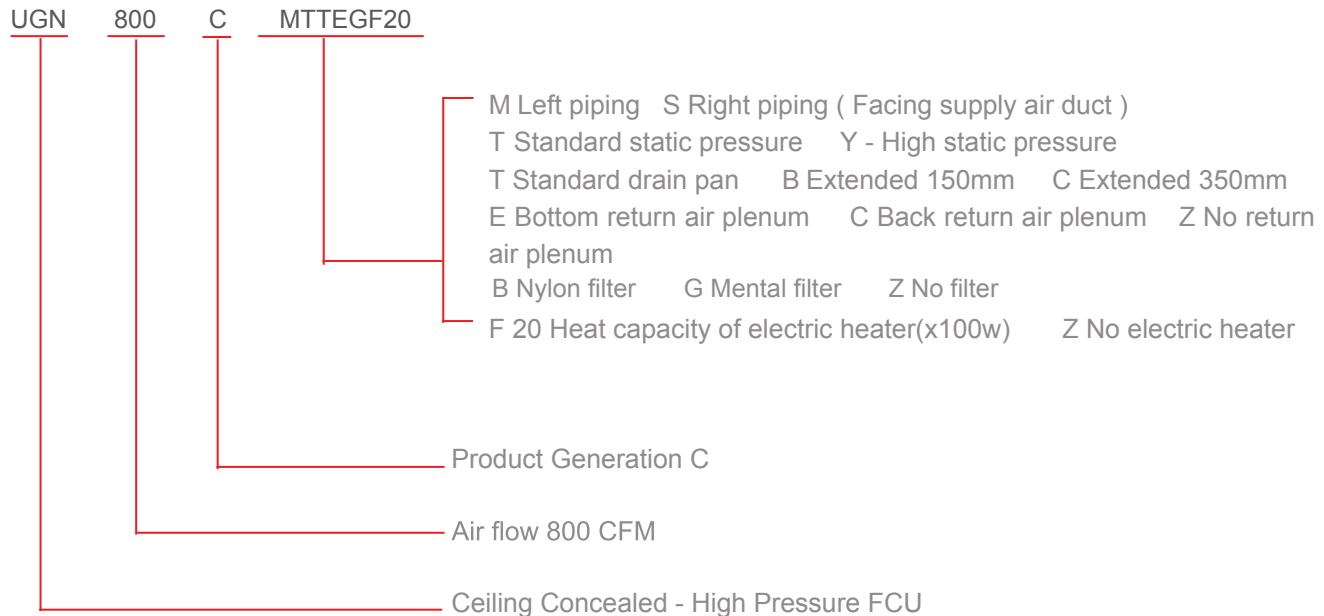


Nomenclature

- Large air flow, range from 655CMH to 6200CMH
- High external static pressure, up to 180Pa.



Optional Accessories

American Pro® has a series of optional accessories for different requirements on the following:

No.	Options		UDS				UDSR			UGN		UGS	UD		ULN
			2 Pipes		4 Pipes	2 Pipes		4 Pipes	UGN-T	UGN-Y	UD-EB		UD-EC		
			2 rows	3 rows	4 rows	3+1	3 rows	4 rows						3+1	
1	Brushless DC Motor		-	√	-	-	√	-	-	-	-	-	-	-	
2	Filter	Nylon Filter	√	√	√	√	√	√	√	√	√	○	○	○	
		Metal Filter	√	√	√	√	√	√	√	√	√	-	-	-	
3	Return Air Plenum	Back	√	√	√	√	√	√	√	√	√	-	-	-	
		Bottom	√	√	√	√	√	√	√	√	○	-	-	-	
4	3-speed Switch		√	√	√	-	√	√	-	√	√	√	-	√	-
5	Thermostat		√	√	√	√	√	√	√	√	√	√	-	√	-
6	Wire Controller		-	-	-	-	-	-	-	-	-	-	√	-	√
7	Remote Controller		√	√	√	√	√	√	√	√	√	√	○	√	○
8	Motorized Valve		√	√	√	√	√	√	√	√	√	√	√	√	√

Note: √--Optional ○--Standard - None

UDS/UDSR with brushless DC motor is matched with thermostat

UGN-T -- UGN standard static pressure type(0-80Pa) UGN-Y -- UGN high static pressure type(80-180Pa)



Ceiling Concealed High Pressure FCU

Model UGN		800C			1000C			1200C			1600C			
		High	Medium	Low	High	Medium	Low	High	Medium	Low	High	Medium	Low	
Air Flow m³/h	Standard (S)	0 Pa	1400	1090	880	1610	1285	1035	2050	1640	1305	2640	2105	1685
		40 Pa	1200	960	775	1420	1135	915	1850	1450	1155	2355	1885	1510
		80 Pa	1030	820	655	1230	985	790	1560	1250	1000	2095	1675	1340
	High static pressure (H)	80 Pa	1460	1170	945	1715	1380	1100	2195	1745	1400	2820	2255	1805
		130 Pa	1265	1015	815	1510	1215	970	1925	1540	1230	2490	1990	1595
		180 Pa	1075	860	690	1305	1045	835	1660	1330	1065	2160	1730	1385
Total Cooling Capacity kW	Standard (S)	0 Pa	8.78	7.02	5.63	10.52	8.41	6.74	13.39	10.72	8.57	17.22	13.78	11.02
		40 Pa	7.85	6.28	5.03	9.27	7.42	5.94	11.80	9.45	7.94	15.17	12.14	9.71
		80 Pa	6.99	5.59	4.47	7.98	6.39	5.11	10.16	8.13	6.49	13.05	10.44	8.36
	High static pressure (H)	80 Pa	9.38	7.50	6.01	11.26	9.00	7.21	14.31	11.45	9.15	18.40	14.72	11.78
		130 Pa	8.29	6.64	5.30	9.87	7.90	6.31	12.04	9.63	7.70	15.93	12.75	10.20
		180 Pa	7.19	5.75	4.60	8.49	6.79	5.43	9.84	7.86	6.29	13.50	10.80	8.63
Sensible Cooling Capacity kW	Standard (S)	0 Pa	6.47	5.18	4.14	7.88	6.30	5.04	9.72	7.78	6.23	12.83	10.27	8.22
		40 Pa	5.79	4.63	3.71	6.95	5.55	4.43	8.57	6.86	5.48	11.30	9.05	7.23
		80 Pa	5.16	4.12	3.30	5.98	4.78	3.82	7.37	5.96	4.71	9.73	7.78	6.23
	High static pressure (H)	80 Pa	6.92	5.53	4.44	8.42	6.74	5.39	10.39	8.32	6.65	13.71	10.97	8.78
		130 Pa	6.11	4.89	3.92	7.39	5.91	4.73	8.75	6.99	5.60	11.87	9.51	7.61
		180 Pa	5.05	4.25	3.39	6.36	5.08	4.07	7.14	5.71	4.57	10.06	8.05	6.44
Heating Capacity kW	Standard (S)	0 Pa	13.35	10.68	8.54	16.17	12.93	10.34	20.86	16.69	13.36	26.00	20.80	16.64
		40 Pa	11.75	9.40	7.52	14.29	11.43	9.14	18.41	14.73	11.78	23.25	18.61	14.88
		80 Pa	10.07	8.06	6.45	12.38	9.90	7.92	15.89	12.72	10.17	20.67	16.54	13.24
	High static pressure (H)	80 Pa	14.26	11.42	9.12	17.28	13.83	11.06	22.29	17.84	14.27	27.79	22.24	17.79
		130 Pa	12.37	9.89	7.91	15.19	12.51	9.72	19.60	15.68	12.54	24.56	19.65	15.73
		180 Pa	10.49	8.39	6.71	13.09	10.47	8.38	16.89	13.52	10.81	21.31	17.05	13.64
Motor	Power Supply	220V~50Hz												
	Type	Split-capacitor motor with ball bearing												
	Insulation Class	B												
	Quantity(S/H)	1/1			1/1			1/1			1/1			
Fan Quantity	1			1			1			1				
High Rated Power Input W (S/H)	200/280			280/370			300/600			350/700				
Water Flow Rate m³/h	1.60			1.88			2.39			3.08				
Water Pressure Drop kPa	6			14			25			20				
Dimension (Without return air plenum)	Length mm	860			860			960			1110			
	Width mm	770			770			770			770			
	Height mm	430			430			430			430			
Net Weight	(Without return air plenum) kg	40			40			46			53			
	(With return air plenum) kg	50			50			56			65			
Pipe connection	R 1 (Taper Pipe Male Threaded)													
Condensate Drain Size	R 1(Taper Pipe Male Threaded)													

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
- The air volume is tested under entering air condition of 20°C DB and dry coil condition.
- High Static Pressure Series Units may drift water when excess pressure of air duct is less than 80Pa.
- The standard type (S) without return air plenum (Optional).High static pressure (H) with back return air plenum.
- The nameplate of standard type (S) is 40Pa,and high static pressure (H) is 130Pa.
- Please contact factory if need thermostat and three-way switch.
- The manufacturer reserves the rights to make changes to the above specifications without prior notice.



Ceiling Concealed High Pressure FCU

Model UGN		1800C			2000C			3000C			
		High	Medium	Low	High	Medium	Low	High	Medium	Low	
Air Flow m³/h	Standard (S)	0 Pa	3120	2495	2000	4000	3195	2550	5850	4680	3735
		40 Pa	2800	2240	1795	3860	3100	2475	5155	4140	3300
		80 Pa	2510	2010	1610	3610	2890	2320	4455	3565	2860
	High static pressure (H)	80 Pa	3335	2670	2135	4200	3345	2685	6200	4990	4000
		130 Pa	2945	2360	1890	3880	3100	2485	5500	4395	3520
Total Cooling Capacity kW	Standard (S)	0 Pa	20.41	16.32	13.07	26.10	20.89	16.73	38.25	30.61	24.49
		40 Pa	17.97	14.38	11.50	25.25	20.21	16.16	33.71	26.99	21.55
		80 Pa	15.43	12.34	9.87	23.52	18.82	15.05	29.02	23.22	18.55
	High static pressure (H)	80 Pa	21.81	17.45	13.96	27.42	21.92	17.55	40.90	32.70	26.15
		130 Pa	19.11	15.29	12.22	24.26	19.39	15.53	34.41	27.51	22.01
Sensible Cooling Capacity kW	Standard (S)	0 Pa	15.25	12.20	9.76	18.96	15.17	12.16	27.77	22.23	17.80
		40 Pa	13.43	10.74	8.59	18.35	14.68	11.74	24.50	19.60	15.66
		80 Pa	11.53	9.22	7.37	17.07	13.65	10.92	21.06	16.84	13.46
	High static pressure (H)	80 Pa	16.31	13.03	10.43	19.91	15.93	12.75	29.69	23.77	19.00
		130 Pa	14.28	11.42	9.14	17.62	14.09	11.29	25.00	19.98	15.99
Heating Capacity kW	Standard (S)	0 Pa	30.34	24.28	19.42	40.67	32.55	26.07	59.58	47.69	38.16
		40 Pa	27.24	21.80	17.43	39.39	31.52	25.24	52.60	42.09	33.66
		80 Pa	24.42	19.54	15.62	36.79	29.45	23.58	45.39	36.34	29.06
	High static pressure (H)	80 Pa	32.44	25.96	20.76	42.70	34.17	27.37	63.70	50.96	40.78
		130 Pa	28.66	22.93	18.34	39.47	31.58	25.29	55.99	44.79	35.84
Motor	Power Supply		220V~50Hz								
	Type		Split-capacitor motor with ball bearing								
	Insulation Class		B								
	Quantity(S/H)		1/2			2/2			3/3		
Fan Quantity		2			2			3			
High Rated Power Input W (S/H)		600/750			650/1200			900/1800			
Water Flow Rate m³/h		3.65			4.50			6.16			
Water Pressure Drop kPa		25			35			45			
Dimension (Without return air plenum)	Length mm		1260			1560			2010		
	Width mm		770			770			770		
	Height mm		430			430			430		
Net Weight	(Without return air plenum) kg		64			80			108		
	(With return air plenum)kg		76			94			126		
Pipe connection		R 1 (Taper Pipe Male Threaded)			R 1 1/2(Taper Pipe Male Threaded)						
Condensate Drain Size		R 1 (Taper Pipe Male Threaded)									

Note:

- Cooling capacity is based on the following:
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 - 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
- The air volume is tested under entering air condition of 20°C DB and dry coil condition.
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