

Skyline™ Outdoor Air Handler, 3 to 92 ft²—900 to 65,000 cfm

- **Flexibility**—custom modular platform and multiple component options
- **Operating efficiency**—efficient fan selections
- **Easy, low cost installation**—ships assembled or by section with curb-ready base rail and heavy duty lifting lugs; optional roof curb kit with variable heights
- **Easy maintenance and serviceability**—easy-to-remove access panels
- **Indoor air quality**—low leakage cabinet and double-sloped drain pan

For more detail refer to Catalog 570. For the most current information, refer to www.mcquay.com.

Durable, weather tight cabinet

- Cross-broken top panels eliminate standing water
- Standing “C” cap over joint provides a watertight seal
- Drip shield on all sides and over doors
- Pre-painted frames and panels
- R-13 foam-injected insulation
- Stainless steel liners option

Custom modular design

- Allows custom selection and configuration of components to meet performance requirements

Motor control

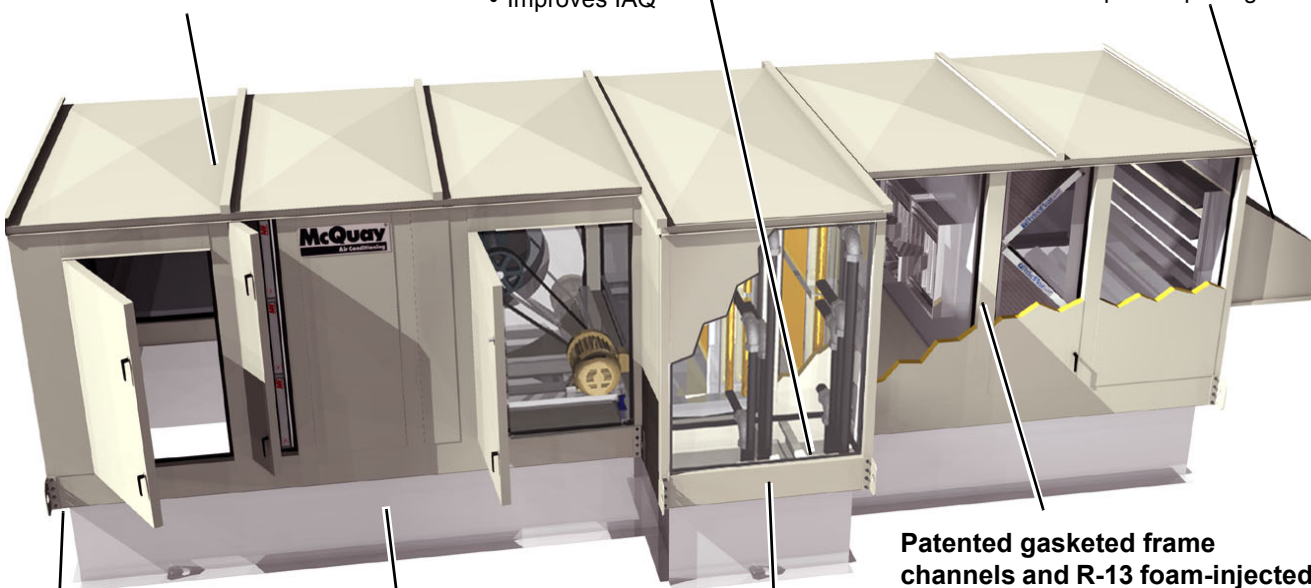
- Disconnect switches: non-fused, fused, circuit breaker
- Starters: IEC and NEMA type
- VFDs: McQuay, ABB, Danfoss

Visible double-sloped drain pan

- Microbial-resistant coated galvanized or optional stainless steel to inhibit bacteria growth
- Makes inspection and cleaning easier
- Improves IAQ

Damper hoods (optional) with screens

- Direct rain or snow away from required openings



Heavy duty base rail

- Standard base rail in varying heights (4" to 12") or curb-ready design, forms weather tight seal
- Lifting lugs on all four corners facilitates easy rigging

Factory-supplied roof curb (optional)

- Designed specifically to match custom-modular design flexibility
- Variable heights from 16" to 30" to meet installation requirements
- Includes separate pipe chase

Piping vestibule

- Encloses piping connections within unit cabinet
- Variable depths to meet your piping requirements

Patented gasketed frame channels and R-13 foam-injected panels

- Eliminates metal-to-metal contact between paneling and framework to minimize air leakage
- Provides superior strength
- Promotes high IAQ and long life

Customized Options

Use McQuay Skyline as a product platform on which to build the ideal outdoor air handler for your specific application. Customized options include:

- Curb-ready base and roof curb kits (16", 20", 24", 30")
- Multiple sizes of insulated, double-wall coil and piping vestibules
- Horizontal or vertical integral face and bypass dampers
- Hoods and grilles for damper openings
- Variable Dimensioning™ on 2" increments
- Multiple coil face areas per unit size
- Disconnects/starters and VFD's
- Multiple section depths
- Various casing and drain pan materials
- Mixing boxes/economizers
- Sound attenuators
- Electro-Fin epoxy coil coating
- Multiple coil section depths
- Humidifier manifold
- IBC seismic certification
- Gas-phase filtration
- Miami-Dade hurricane certified
- Multiple fan selections: forward curve, airfoil, inline, and belt or direct drive plenum fans; twin fans (two forward curved fans on one shaft)
- Filters (flat, angular, bag and cartridge) available in side load and/or front loading configurations
- Doors, marine lights, and receptacles
- Manual selections to accommodate special components
- Hinged access doors with full grip handles

RETURN / EXHAUST	ECONOMIZER	BLENDER	FILTER	F & BP DAMPER	COIL	ACCESS	HORIZONTAL COIL	SUPPLY FAN	DIFFUSER	COIL BLOW THRU	ACCESS	FILTER	ATTENUATOR	PLENUM
PLENUM FAN			2" & 4" ANGULAR	INTERNAL	HORIZ HEATING	LARGE	CLG. / HTG. COMBINATION	FC, AF FAN, & TWIN FAN		HORIZ		CARTRIDGE		DISCHARGE PLENUM
FC, AF FAN & TWIN FAN	INLET PLENUM	2" & 4" FLAT	INTERNAL	1 & 2 ROW STEAM AND 1 - 4 ROW WATER	MEDIUM	CLG. 10 ROW	PLENUM FAN		CLG. OR HTG.			BAG		
ESI FAN	MIXBOX WITH 4" FILTER	CARTRIDGE	INTERNAL		SMALL	4 ROW	ESI FAN							
MIXING BOX	MIXBOX WITH 2" FILTER	BAG	RIGHT ANGLE			SFA COIL MFA COIL F & BP								
MIXBOX WITH ANG FILTER														

Outdoor Air Handlers

Physical Data—Quick Select Table*—Skyline 003 through 021

Description	Unit size								
	003	004	006	008	010	012	014	017	021
Airflow range, cfm	900–2500	1200–3100	1700–4600	2200–6000	2900–7700	3600–9700	4200–11,200	5000–13,500	6000–16,000
cfm @ 500 ft/min through large face area coil	1550	1950	2850	3750	4800	6050	7000	8400	10,050
Height × width, in	32 × 38	36 × 40	36 × 52	40 × 58	42 × 64	48 × 66	48 × 74	52 × 80	52 × 82
Cooling coil face area, sq.ft.									
Staggered large	3.9	4.8	6.6	8.5	10.7	13.5	15.4	18.3	21.9
Large	3.1	3.9	5.7	7.5	9.6	12.1	14.0	16.8	20.1
Staggered medium	2.6	3.4	4.7	6.4	8.3	9.8	11.2	13.7	17.2
Medium	2.1	2.8	4.1	5.6	7.4	8.8	10.2	12.6	15.8
Small	NA	2.3	3.3	4.7	6.4	7.7	8.9	11.2	14.4
Fan section—depth, in									
Largest housed fan avail. w/ top hor. dis.	32	32	36	40	40	46	46	50	52
Largest inline fan and motor available	N/A	N/A	N/A	N/A	N/A	44	44	48	54
Largest belt drive plenum fan available	N/A	N/A	N/A	N/A	34	42	42	48	52
Largest direct drive plenum fan available	N/A	N/A	N/A	44	46	54	54	54	54
Largest twin fan and motor available	N/A	N/A	N/A	50	54	56	58	58	66
Mixing box—depth, in									
Mixing box only	20	20	20	20	22	24	24	26	30
Mixing box with flat filter	24	24	24	24	26	28	28	30	34
Mixing box with angular filter	42	42	42	42	44	46	46	48	52
Economizer—depth, in									
Depth	40	40	42	40	44	46	48	50	54
Blender—depth, in									
Largest Kees	18	20	24	26	28	34	36	38	42
Largest Blender Products IV	18	22	26	30	34	38	40	46	48
Side load filter sections—depth, in									
Flat 2" and 4"	12	12	12	12	12	12	12	12	12
2" angular	32	30	30	30	30	30	30	30	30
Cartridge (12" deep w/2" pre-filter)	22	22	22	22	22	22	22	22	22
Bag (36" w/2" pre-filter)	42	42	42	42	42	42	42	42	42
Front load filter sections—depth, in									
Cartridge (12" deep w/2" pre-filter)	16	16	16	16	16	16	16	16	16
Bag (36" w/2" pre-filter)	40	40	40	40	40	40	40	40	40
Face and bypass—depth, in									
Internal	12	12	12	12	12	12	12	12	12
External	18	18	18	20	22	24	24	26	30
Coil sections—depth, in									
Heating only (2-row water)	12	12	12	12	12	12	12	12	16
Cooling only (4-row water)	24	24	24	24	24	24	24	24	24
Cooling only (6-row water)	24	24	24	24	24	24	24	24	24
Clg (12-row) & reheat (1-row)	36	36	36	36	36	36	36	36	36
Access sections—depth, in									
16" deep	16	16	16	16	16	16	16	16	16
24" deep	24	24	24	24	24	24	24	24	24
30" deep	30	30	30	30	30	30	30	30	30
36" deep	36	36	36	36	36	36	36	36	36
42" deep	42	42	42	42	42	42	42	42	42
48" deep	48	48	48	48	48	48	48	48	48
54" deep	54	54	54	54	54	54	54	54	54
Diffuser—depth, in									
With housed fan	10	10	10	12	12	16	16	16	16
With inline fan	N/A	N/A	N/A	N/A	N/A	18	18	18	22
Attenuator—depth, in									
Short	40	40	40	40	40	40	40	40	40
Medium	52	52	52	52	52	52	52	52	52
Long	64	64	64	64	64	64	64	64	64
Supply or return plenum—depth, in									
Top, bottom or end opening	14	16	16	18	20	22	22	24	28

* Based on typical industry sizes. Skyline air handling units are available in 2 inch increments of height and width to fit the exact space requirements. Front load filter sections include 24" upstream plenum section with tread plate for heavy duty floor liner.

Outdoor Air Handlers

Physical Data—Quick Select Table*—Skyline 025 through 090

Description	Unit size								
	025	030	035	040	050	065	080	085	090
Airflow range, cfm	7300-19,400	8500-22,500	10,000-26,500	11,500-31,000	15,000-40,000	20,000-54,000	21,500-57,500	23,100-61,600	24,600-65,600
cfm @ 500 ft/min through large face area coil	12,150	14,150	16,700	19,300	24,500	33,300	35,900	38,450	41,000
Height x width, in	66 x 86	66 x 98	72 x 102	74 x 116	86 x 120	98 x 136	106 x 136	110 x 136	116 x 136
Cooling coil face area, sq.ft.									
Staggered large	27.4	31.9	37.1	42.9	58.0	76.9	82.0	87.1	92.2
Large	24.3	28.3	33.4	38.6	49.0	66.6	71.8	76.9	82.0
Staggered medium	21.3	24.8	29.7	34.3	40.1	61.5	61.5	66.6	71.8
Medium	18.2	21.2	24.1	30.0	35.7	51.2	51.2	56.4	61.5
Small	16.7	19.5	22.3	27.9	31.2	46.1	46.1	51.2	56.4
Fan section—depth, in									
Largest housed fan avail. w/ top hor. dis.	58	58	58	70	80	92	92	92	92
Largest inline fan and motor available	64	64	70	70	90	96	96	96	96
Largest belt drive plenum fan available	56	58	62	62	70	82	82	82	82
Largest direct drive plenum fan available	66	68	84	86	86	86	N/A	N/A	N/A
Largest twin fan and motor available	66	74	82	82	82	N/A	N/A	N/A	N/A
Mixing box—depth, in									
Mixing box only	32	32	36	36	40	46	50	54	56
Mixing box with flat filter	36	36	40	40	44	50	54	58	60
Mixing box with angular filter	54	54	58	58	62	68	72	76	78
Economizer—depth, in									
Depth	54	56	62	72	80	92	100	108	112
Blender—depth, in									
Largest Kees	46	48	58	58	68	76	80	84	84
Largest Blender Products IV	52	60	64	70	74	88	88	92	92
Side load filter sections—depth, in									
Flat 2" and 4"	12	12	12	12	12	12	12	12	12
2" angular	32	32	32	32	32	32	32	32	32
Cartridge (12" deep w/2" pre-filter)	22	22	22	22	22	22	22	22	22
Bag (36" w/2" pre-filter)	42	42	42	42	42	42	42	42	42
Front load filter sections—depth, in									
Cartridge (12" deep w/2" pre-filter)	16	16	16	16	16	16	16	16	16
Bag (36" w/2" pre-filter)	40	40	40	40	40	40	40	40	40
Face and bypass—depth, in									
Internal	12	12	12	12	12	12	12	12	12
External	32	32	34	38	44	50	54	56	58
Coil sections—depth, in									
Heating only (2-row water)	12	12	12	12	12	12	12	12	12
Cooling only (4-row water)	36	36	36	18	18	18	18	18	18
Cooling only (6-row water)	42	42	42	24	24	24	24	24	24
Clg (12-row) & reheat (1-row)	42	42	42	36	36	36	36	36	36
Access sections—depth, in									
16" deep	16	16	16	16	16	16	16	16	16
24" deep	24	24	24	24	24	24	24	24	24
30" deep	30	30	30	30	30	30	30	30	30
36" deep	36	36	36	36	36	36	36	36	36
42" deep	42	42	42	42	42	42	42	42	42
48" deep	48	48	48	48	48	48	48	48	48
54" deep	54	54	54	54	54	54	54	54	54
Diffuser—depth, in									
With housed fan	24	24	24	30	30	30	30	30	30
With inline fan	26	26	28	30	36	38	38	38	38
Attenuator—depth, in									
Short	40	40	40	40	40	40	40	40	40
Medium	52	52	52	52	52	52	52	52	52
Long	64	64	64	64	64	64	64	64	64
Supply or return plenum—depth, in									
Top, bottom or end opening	30	30	32	32	38	42	48	52	54

* Based on typical industry sizes. Skyline air handling units are available in 2 inch increments of height and width to fit the exact space requirements. Front load filter sections include 24" upstream plenum section with tread plate for heavy duty floor liner.