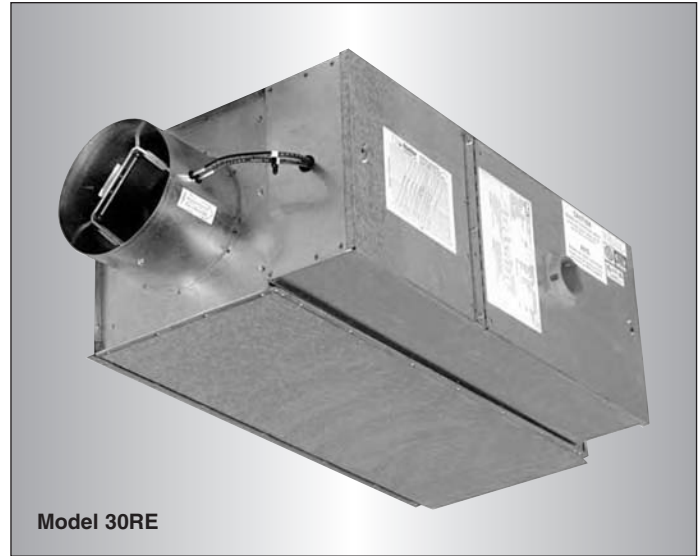


## Recommended Airflow Ranges For Single Duct VAV Terminal Units

The recommended airflow ranges below are for terminal units with pressure independent controls and are based upon controller sensitivity limits as shown for each control type. For a given unit size, the minimum, auxiliary minimum (where applicable) and the maximum flow settings must be within the range limits to ensure pressure independent operation, accuracy and repeatability. The high end of the tabulated Total Airflow Range represents the Diamond Flow Sensor's differential pressure reading at 1" w.g. (250 Pa). This is a common high limit for many VAV controllers, whether pneumatic or analog/DDC transducers. For these reasons, factory settings will not be made outside these ranges. A minimum setting of zero (shut-off) is also available. Where an auxiliary setting is specified, the value must be greater than the minimum setting.

ARI Standard 880 "Air Terminal Units" is the method of test for the certification program. The "standard rating condition" (certification rating point) airflow volumes for each terminal unit size are tabulated below. These air volumes equate to an approximate inlet velocity of 2000 fpm (10.2 m/s)



Model 30RE

When digital or other controls are mounted by Nailor, but supplied by others, these values are guidelines only, based upon experience with the majority of controls currently available. Controls supplied by others for factory mounting are configured and calibrated in the field.

B SINGLE DUCT TERMINAL UNITS

### Imperial Units, Cubic Feet per Minute

Unit Size	Total Airflow Range cfm	Airflow at 2000 fpm Inlet Velocity (nom.) cfm	Range of Minimum and Maximum Settings, cfm		
			Pneumatic 3000 Controller	Analog Electronic Controls	Digital Controls
			Min. – Max.	Min. – Max.	Min. – Max.
4	0 – 215	150	30 – 215	25 – 215	25 – 215
5	0 – 310	250	55 – 310	45 – 310	45 – 310
6	0 – 500	400	85 – 500	70 – 500	70 – 500
7	0 – 710	550	125 – 710	100 – 710	100 – 710
8	0 – 1000	700	180 – 1000	150 – 1000	150 – 1000
9	0 – 1300	900	210 – 1300	170 – 1300	170 – 1300
10	0 – 1435	1100	250 – 1435	205 – 1435	205 – 1435
12	0 – 2185	1600	320 – 2185	260 – 2185	260 – 2185
14	0 – 2745	2100	470 – 2745	380 – 2745	380 – 2745
16	0 – 3730	2800	590 – 3730	480 – 3730	480 – 3730
24 x 16	0 – 6435	5350	1005 – 6435	810 – 6435	810 – 6435

### Metric Units, Liters per Second

Unit Size	Total Airflow Range l/s	Airflow at 10.2 m/s Inlet Velocity (nom.) l/s	Range of Minimum and Maximum Settings, l/s		
			Pneumatic 3000 Controller	Analog Electronic Controls	Digital Controls
			Min. – Max.	Min. – Max.	Min. – Max.
4	0 – 101	71	14 – 101	12 – 101	12 – 101
5	0 – 146	118	26 – 146	21 – 146	21 – 146
6	0 – 236	189	40 – 236	33 – 236	33 – 236
7	0 – 335	260	59 – 335	47 – 335	47 – 335
8	0 – 472	330	85 – 472	71 – 472	71 – 472
9	0 – 614	425	99 – 614	80 – 614	80 – 614
10	0 – 677	519	118 – 677	97 – 677	97 – 677
12	0 – 1031	755	151 – 1031	123 – 1031	123 – 1031
14	0 – 1296	991	222 – 1296	179 – 1296	179 – 1296
16	0 – 1761	1322	278 – 1761	227 – 1761	227 – 1761
24 x 16	0 – 3037	2525	474 – 3037	382 – 3037	382 – 3037