

Climate | Controls | Security

Carrier Cassette – 2018 Portfolio Product Changes and Improvements

6th February, 2018

BEE LABELLING – PROGRAM UPDATE



1st Jan 2016 – 31st Dec 2017

1st Jan 2018 - 31st Dec 2019

	EER (W/W)			ISEER	
Star Rating	Minimum	Maximum	Star Rating	Minimum	Maximum
5 Star****	3.50		5 Star****	4.50	
4 Star****	3.30	3.49	4 Star****	4.00	4.50
3 Star***	3.10	3.29	3 Star***	3.50	3.99
2 Star**	2.90	3.09	2 Star**	3.30	3.49
1 Star*	2.70	2.89	1 Star*	3.10	3.29

Bureau of Energy Efficiency (BEE) has come out with new regulation of star labelling of products w.e.f. 1st Jan 2018, wherein labelling standards for fixed speed AC's have been made more stringent.

If the same unit from 2017 is re-labelled in 2018, there will be a drop of 2 stars in efficiency rating

Carrier Cassettes have been re-engineered to either retain or improve star labelling in 2018-19

Scope : 1:1 Duct free system, ≤ 3TR, Single Phase

CASSETTE – PORTFOLIO UPDATE

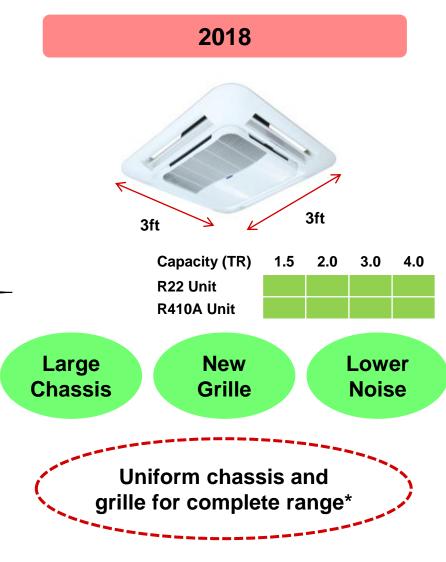


		2017	2018
1.5TR	MORE SAVINGS	R22 -	R22 R410A
	MORE STARS MORE SAVINGS	- R410A	R22 -
2.0TD	MORE STARS MORE SAVINGS	R22 -	R22 R410A
2.0TR	MORE STARS MORE SAVINGS	- R410A	R22 -
3.0TR	-	R22 R410A	R22 R410A
4.0TR	-	R22 R410A	R22 R410A

CASSETTE – PORTFOLIO UPDATE







CASSETTE – IMPROVED EFFICIENCY



2017 Efficiency - ISEER 2018 Efficiency - ISEER

R22	1.5TR	MORE SAVINGS	3.00	MORE STARS MORE SAVINGS MORE SAVINGS MORE SAVINGS	3.40 3.60	13% 20%
Range	0.070	MORE STARS SOME	3.00	MORE STATES MORE STATES MORE STATES	3.38	13%
	2.0TR			MORE STARS MORE BAVINGS	3.60	20%
R410A Range	1.5TR	MORE STARS 25	3.15	MORE STARS MORE SAVINGS	3.40	8%
	2.0TR	MORE STARS S	3.15	MORE STARS MORE SAVINGS	3.38	1 7%



Improved efficiency to ensure reduced energy bills

No change in 3TR and 4TR

CASSETTE - IMPROVED AIRFLOW



2017 Airflow - CFM 2018 Airflow - CFM



R410A Range

1.5TR



440



590





Higher CFM eliminates earlier airflow gap, and helps achieve better cooling effect & lower noise*

CASSETTE – IMPROVED TONNAGE



2017 Actual Cap. - TR 2018 Actual Cap. - TR

R22 Range	1.5TR	MORE STARS 5 1.5TR	1.5TR
			1.6TR 4%
	2.0TR	1.9TR	2.0TR 7%
			2.1TR 10%
R410A Range	1.5TR	1.45TR	1.5TR 3%
	2.0TR	1.8TR	1.9TR 4%



Improved tonnage has filled the earlier capacity gap

No change in 3TR and 4TR

CASSETTE – OTHER CHANGES



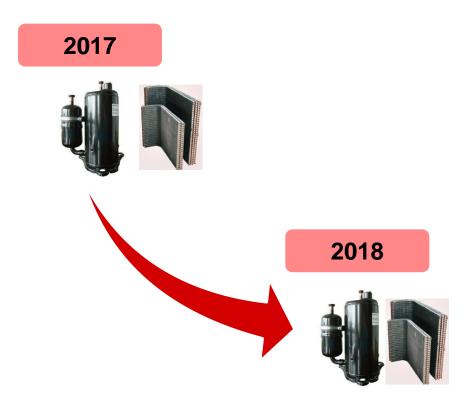
Interconnecting Tubes

2017 2018 1.5TR 2.0TR 3.0TR 4.0TR



Interconnecting tubes removed uniformly from factory scope for all models

High Efficiency Components



- Introduction of new high efficiency compressors
- New improved condenser coils with multi pass circuiting