

BUREAU OF INDIAN STANDARDS

Program of Work

MED 3 : Refrigeration And Air Conditioning

Scope: a) Formulation of standards for refrigeration and air- conditioning equipment and appliances including terminology, definitions and symbols, designation of refrigerants, testing of refrigerating systems; and refrigerating units. b) Co-ordination of work with ISO/TC 86 Refrigeration and Air conditioning; ISO/TC 142 Cleaning equipment for air and other gases; IEC/TC 61 Safety of household appliances for refrigeration and air- conditioning and IEC TC 59/SC 59M Performance of Electrical Household and Similar Cooling and Freezing Appliances.

Liaison: **TC-142 (P):** *Cleaning equipment for air and other gases* **TC-86 (P):** *Refrigeration and air-conditioning* **TC-86 SC-1 (P):** *Safety and environmental requirements for refrigerating systems* **TC-86 SC-4 (P):** *Testing and rating of refrigerant compressors* **TC-86 SC-6 (P):** *Testing and rating of air-conditioners and heat pumps* **TC-86 SC-7 (P):** *Testing and rating of commercial refrigerated display cabinets* **TC-86 SC-8 (P):** *Refrigerants and refrigeration lubricants* **IEC TC-59 SC-59M (P):** *Performance of electrical household and similar cooling and freezing appliances* **IEC TC-61 SC-61C (P):** *Safety of refrigeration appliances for household and commercial use* **IEC TC-61 SC-61D (P):** *Appliances for air-conditioning for household and similar purposes*

Published Standards

S.No	IS No.	TITLE	Reaffirm M-Y	No. of Amds	Eqv.
1	IS 10594 : 2021	Specification for Thermostatic Expansion Valves		-	Indigenous
2	IS 10617 : 2018 Reviewed In : 2022	Hermetic compressors - Specification (Second Revision)	May, 2022	1	Indigenous
3	IS 11327 : 2022	Requirements for Refrigerants Condensing Units (Second Revision)		-	Indigenous
4	IS 11328 : 2022	Self-contained Automatic Ice Makers Specification (First Revision)		-	Indigenous
5	IS 11329 : 2018 Reviewed In : 2022	Finned type heat exchanger for room air conditioner (First Revision)	May, 2022	2	Indigenous
6	IS 11330 : 2021	Refrigeration Oil Separator General Specification Construction Requirements and Testing		-	Indigenous
7	IS 11561 : 2018 Reviewed In : 2022	Code of practice for testing of water cooling towers (First Revision)	May, 2022	-	Indigenous
8	IS/ISO 11650 : 1999	Performance of refrigerant recovery and/or recycling	September, 2022	-	Identical under single numbering

	Reviewed In : 2022 ISO 11650 : 1999	equipment			
9	IS 11951 : 2009 11951 Reviewed In : 2022	PUMPSET FOR DESERT COOLERS - SPECIFICATION (First Revision)	September, 2022	-	Indigenous
10	IS 11951 : 2024	PUMPSET FOR DIRECT EVAPORATIVE AIR COOLER â€™ SPECIFICATION (Second Revision)		-	Indigenous
11	IS 12249 : 2021	Specification for Desiccant Driers		-	Indigenous
12	IS/ISO 13043 : 2011 ISO 13043:2011 ISO 13043:2011	Road Vehicles Refrigerant Systems used in Mobile Air Conditioning Systems MAC Safety Requirements Adoption of ISO 13043:2011		-	Identical under single numbering
13	IS/ISO 13261-1 : 1998 ISO 13261-1 : 1998 Reviewed In : 2021 ISO 13261-2:1998	Sound power rating of air - Conditioning and air - Source heat pump equipment: Part 1 non - Ducted outdoor equipment	August, 2021	-	Identical under dual numbering
14	IS/ISO 13261-2 : 1998 ISO 13261-2 : 1998 Reviewed In : 2022 ISO 13261 : Part 2 : 1998	Sound power rating of airConditioning and air - Source heat pump equipment: Part 2 non - Ducted indoor equipment	September, 2022	-	Identical under single numbering
15	IS 1391 (Part 1) : 2017 Reviewed In : 2022	Room air conditioners - Specification: Part 1 unitary air conditioners (Third Revision)	January, 2022	4	Indigenous
16	IS 1391 (Part 1) : 2023	Room Air Conditioners Specification Part 1 Unitary Air Conditioners Fourth Revision		-	Indigenous
17	IS 1391 (Part 2) : 2018 Reviewed In : 2022	Room air conditioners - Specification: Part 2 split air conditioners (Third Revision)	May, 2022	4	Indigenous
18	IS 1391 (Part 2) : 2023	Room Air Conditioners Specification Part 2 Split Air Conditioners Fourth Revision		-	Indigenous
19	IS 14618 : 2022	Automotive vehicles Air-conditioning and heating systems thermal performance Method of measurement (Second Revision)		-	Indigenous
20	IS 1474 : 1959 Reviewed In : 2022	Specification for commercial refrigerators	May, 2022	-	Indigenous
21	IS 1475 (Part 1) : 2001 Reviewed In : 2022	Self - Contained drinking water coolers - Specification: Part 1 energy consumption and performance (Third Revision)	January, 2022	-	Indigenous
22	IS 16590 : 2023	Liquid Chilling Package Units - Specification (First Revision)		-	Indigenous
23	IS 16590 : 2017 Reviewed In : 2022	Water cooled chilling packages using the vapour compression cycle - Specification	February, 2022	1	Indigenous
24	IS 16656 : 2017 ISO 817 : 2014 Reviewed In : 2021	Refrigerants - Designation and safety classification	April, 2021	2	Identical under dual numbering

	ISO 817 : 2014				
25	IS 16672 (Part 1) : 2017 ISO 23953-1 : 2015 Reviewed In : 2021 ISO 23953-1: 2015	Refrigerated display cabinets: Part 1 vocabulary	April, 2021	-	Identical under dual numbering
26	IS 16672 (Part 2) : 2017 ISO 23953-2 : 2015 Reviewed In : 2021 ISO 23953-2 : 2015	Refrigerated display cabinets: Part 2 classification, requirements and test conditions	April, 2021	-	Identical under dual numbering
27	IS 16678 (Part 1) : 2018 ISO 5149-1 : 2014 Reviewed In : 2022 ISO 5149 Pt 1:2014	Refrigerating Systems and Heat Pumps " Safety and Environmental Requirements Part 1 Definitions, Classification and Selection Criteria	May, 2022	2	Identical under dual numbering
28	IS 16678 (Part 2) : 2018 ISO 5149-2 : 2014 Reviewed In : 2022 ISO 5149 Pt 2:2014	Refrigerating systems and heat pumps - Safety and environmental requirements: Part 2 design, construction, testing, marking and documentation	May, 2022	1	Identical under dual numbering
29	IS 16678 (Part 3) : 2018 ISO 5149-3 : 2014 Reviewed In : 2022 ISO 5149 Pt 3:2014	Refrigerating systems and heat pumps - Safety and environmental requirements: Part 3 installation site	May, 2022	1	Identical under dual numbering
30	IS 16678 (Part 4) : 2018 ISO 5149-4 : 2014 Reviewed In : 2022 ISO 5149 Pt 4:2014	Refrigerating systems and heat pumps - Safety and environmental requirements: Part 4 operation, maintenance, repair and recovery	May, 2022	-	Identical under dual numbering
31	IS 16753 (Part 1) : 2022 ISO 29463-1 : 2017 ISO 29463-1 : 2017	High Efficiency Filters and Filter Media for removing Particles from Air Part 1 Classification Performance Testing and Marking First revision		-	Identical under dual numbering
32	IS 16753 (Part 2) : 2018 ISO 29463-2 : 2011 Reviewed In : 2022 ISO 29463-2 :2011	High - Efficiency filters and filter media for removing particles in air: Part 2 aerosol production, measuring equipment and particle - Counting statistics	May, 2022	-	Identical under dual numbering
33	IS 16753 (Part 3) : 2018 ISO 29463-3 : 2011 Reviewed In : 2022 ISO 29463-3:2011	High - Efficiency filters and filter media for removing particles in air: Part 3 testing flat sheet filter media	May, 2022	-	Identical under dual numbering
34	IS 16753 (Part 4) : 2018 ISO 29463-4 : 2011 Reviewed In : 2022 ISO 29463-4:2011	High - Efficiency filters and filter media for removing particles in air: Part 4 testing method for determining leakage of filter elements - Scan method	May, 2022	-	Identical under dual numbering
35	IS 16753 (Part 5) : 2018 ISO 29463-5 : 2011 Reviewed In : 2022 IS 16753 (Part 5)/ISO 29463-5	High - Efficiency filters and filter media for removing particles in air: Part 5 test method for filter elements	May, 2022	-	Identical under dual numbering
36	IS 16753 (Part 5) : 2024	High-Efficiency Filters and Filter Media for Removing Particles in		-	Identical under dual numbering

	IS 16753 (Part 5)/ISO 29463-5 IS 16753 (Part 5)/ISO 29463-5	Air Part 5 Test Method for Filter Elements (First Revision)			
37	IS 17550 (Part 1) : 2021	HOUSEHOLD REFRIGERATING APPLIANCES CHARACTERISTICS AND TEST METHODS Part 1 General Requirements		-	Indigenous
38	IS 17550 (Part 2) : 2021 IEC 62552-2: 2015	Household Refrigerating Appliance- Characteristics and test methods Part 2 Performance requirements		-	Modified/Technically Equivalent
39	IS 17550 (Part 3) : 2021 62552-3	Household Refrigerating Appliance- Characteristics and test methods Part 3 Energy Consumption and volume		-	Modified/Technically Equivalent
40	IS 17570 (Part 1) : 2021 ISO 16890-1:2016 ISO 16890-2:2016	Air Filters for general ventilation Part 1 Technical specifications requirements and classification system based upon particulate matter efficiency ePM Adoption of ISO 16890-1:2016		-	Identical under dual numbering
41	IS 17570 (Part 2) : 2021 ISO 16890-2:2016	Air Filters for general ventilation Part 2 Measurement of fractional efficiency and air flow resistance Modified adoption of ISO 16890-2:2016		-	Modified/Technically Equivalent
42	IS 17570 (Part 3) : 2021 ISO 16890-3:2016 ISO 16890-3:2016	Air Filters for general ventilation Part 3 Determination of the gravimetric efficiency and the air flow resistance versus the mass of test dust captured (adoption of ISO 16890-3:2016)		-	Identical under dual numbering
43	IS 17570 (Part 4) : 2021 ISO 16890-4:2016 ISO 16890-4:2016	Air Filters for general ventilation Part 4 Conditioning method to determine the minimum fractional test efficiency (adoption of ISO 16890-4:2016)		-	Identical under dual numbering
44	IS/ISO 17584 : 2022 IS/ISO 17584 IS/ISO 17584	Refrigerant properties (First Revision)		-	Identical under single numbering
45	IS 17681 : 2022	Specification for Bottled water dispensers		1	Indigenous
46	IS 17693 : 2022	Non-electric Cooling Cabinet Made of Clay		-	Indigenous
47	IS 17773 : 2022	Closed-Circuit Ammonia Refrigeration System " Code of Practice for Design and Installation (ANSI/IIAR 2 : 2014, NEQ)		-	Indigenous
48	IS 18154 (Part 1) : 2023 ISO 16358-1	Air-cooled air conditioners and air-to-air heat pumps Testing and calculating methods for seasonal performance factors Part 1: Cooling seasonal performance factor ISO 16358-1 : 2013 MOD		-	Modified/Technically Equivalent
49	IS 18154 (Part 2) : 2023	Air-cooled air conditioners and air-to-air heat pumps Testing and		-	Identical under dual numbering

	ISO 16358-2 ISO 16358-2	calculating methods for seasonal performance factors Part 2: Heating seasonal performance factor			
50	IS 18154 (Part 3) : 2023 ISO 16358-3 ISO 16358-3	Air-cooled air conditioners and air-to-air heat pumps Testing and calculating methods for seasonal performance factors Part 3: Annual performance factor		-	Identical under dual numbering
51	IS 18801 : 2023 ISO 22041:2019 ISO 22041:2019	Refrigerated storage cabinets and counters for professional use Performance and energy consumption		-	Identical under dual numbering
52	IS 18802 : 2023 ISO 22042:2021 ISO 22042:2021	Blast chiller and freezer cabinets for professional use Classification requirements and test conditions		-	Identical under dual numbering
53	IS 2167 : 2019	Specification for bottle coolers (Second Revision)	-	-	Indigenous
54	IS 2370 : 2014 Reviewed In : 2019	Walk - In cold rooms - Specification (First Revision)	June, 2019	-	Indigenous
55	IS 302 (Part 2/Sec 24) : 1994 IEC 60335-2-24 Reviewed In : 2014 IEC Pub 335-2-24 (1992)	Safety of household and similar electrical appliances: Part 2 particular requirements: Sec 24 refrigerators, food - Freezers and ice - Makers		-	Modified/Technically Equivalent
56	IS 3315 : 2019	Evaporative air coolers (Desert Coolers) - Specification (Third Revision)	-	-	Indigenous
57	IS 3615 : 2020	Glossary of Terms Used in Refrigeration and Air Conditioning (Second Revision)	-	-	Indigenous
58	IS 4831 : 2019	Recommendation on units and symbols for refrigeration (First Revision)	-	-	Indigenous
59	IS 5111 : 1993 ISO 917 Reviewed In : 2022 ISO 917 : 1999	Testing of refrigerant compressors (First Revision)	May, 2022	-	Identical under dual numbering
60	IS 60335 (Part 2/Sec 34) : 2021 IEC 60335-2-34: 2021 IEC 60335-2-34: 2021	Household and similar electrical appliances Safety Part 2-34: Particular requirements for motor-compressors Adoption of IEC 60335-2-34: 2021		-	Identical under single numbering
61	IS/IEC 60335-2-40) : 2018 IEC 60335-2-40 IEC 60335-2-40	Household and similar electrical appliances safety : Particular requirements for electrical heat pumps air-conditioners and dehumidifiers Adoption of IEC 60335-2-40		-	Identical under dual numbering
62	IS/IEC 60335-2-89 : 2010 IEC 60335-2-89 : 2010 Reviewed In : 2023 IEC 60335-2-89:2010	Household and similar electrical appliances - Safety: Part 2 - 89: particular requirements for commercial refrigerating appliances with an incorporated or remote refrigerant unit or compressor	April, 2023	-	Identical under dual numbering

63	IS 655 : 2006 Reviewed In : 2022 ISO 7807: 1983	Air ducts - Specification (Second Revision)	January, 2022	2	Not Equivalent
64	IS 7613 : 1975 Reviewed In : 2017	Method of testing panel type air filters for air - Conditioning and ventilation purposes	March, 2017	-	Indigenous
65	IS 7872 : 2020	Deep Freezers - Specification (Second Revision)	-	1	Indigenous
66	IS 7896 : 2023	Air Conditioning Outdoor Design Conditions Data for Indian Cities (Second Revision)		-	Indigenous
67	IS/ISO 8066-2 : 2001 ISO 8066-2:2001 ISO 8066-2:2001	Rubber and Plastics Hoses and Hose Assemblies for Automotive Air Conditioning Specification Part 2 Refrigerant 134a Adoption of ISO 8066-2:2001		-	Identical under single numbering
68	IS 8066 (Part 3) : 2020 ISO 8066-3:2020 ISO 8066-3:2020	Rubber and Plastics Hoses and Hose assemblies for Automotive Air Conditioning Specification Part 3 Refrigerant 1234yf Adoption of ISO 8066-3:2020		-	Identical under single numbering
69	IS 8148 : 2018 Reviewed In : 2022 ISO 13253 : 2017 ISO 16358 (Part 1) : 2013	Ducted and package air - Conditioners - Specification (Second Revision)	May, 2022	1	Not Equivalent

Standards under Development

Projects Approved

SI. No.	Doc No.	Title
<i>No Records Found</i>		

Preliminary Draft Standards

SI. No.	Doc No.	Title
<i>No Records Found</i>		

Drafts Standards in WC Stage

SI. No.	Doc No.	Title
<i>No Records Found</i>		

Draft Standards Completed WC Stage

SI. No.	Doc No.	Title
1	MED 3 (19119)	Non-Ducted Portable Air-Cooled Air Conditioners And Air-to-Air Heat Pumps Having A Single Exhaust Duct Testing And Rating For Performance
2	MED 3 (19252)	Refrigerated display cabinets Part 2 Classification requirements and test conditions ISO 23953-2 2015 MOD
3	MED 3 (22144)	Refrigerating systems and heat pumps Competence of personnel
4	MED 3 (22778)	Electronic Expansion Valve - Specification
5	MED 3 (24952)	ADJUSTED VOLUME CALCULATION FOR REFRIGERATING APPLIANCES Adoption of IEC TR 63061
6	MED 3 (25074)	Air Filters for General Ventilation Part 4 Conditioning Method to Determine the Minimum

Finalized Draft Indian Standard

Sl. No.	Doc No.	Title
1	MED 3 (22237) Revision of: IS 17550:2021	Household Refrigerating Appliances - Characteristics and Test Methods Part 3 Energy Consumption and Volume First Revision
2	MED 3 (25447) Revision of: IS 3615:2020	REFRIGERATION AND AIR CONDITIONING GLOSSARY OF TERMS Third Revision

Finalized Draft Indian Standards under Print

Sl. No.	Doc No.	Title
1	MED 3 (17393)	Air Handling Units - Specification
2	MED 3 (18921)	Multiple split-system air conditioners and air-to-air heat pumps VRF air conditioners - Specification
3	MED 3 (19768)	Finned type heat exchanger for room air conditioner First Revision Amendment - 3
4	MED 3 (21813) Revision of: IS 16678:2018	Refrigerating Systems and Heat Pumps - Safety and Environmental Requirements Part 4 Operation Maintenance Repair and Recovery First Revision
5	MED 3 (22200) Revision of: IS 1475:2001	Drinking Water Coolers - Specification Fourth Revision
6	MED 3 (22235) Revision of: IS 17550:2021	Household Refrigerating Appliances - Characteristics and Test Methods Part 1 General Requirements First Revision
7	MED 3 (22236) Revision of: IS 17550:2021	Household Refrigerating Appliances - Characteristics and Test Methods Part 2 Performance Requirements First Revision
8	MED 3 (22387) Revision of: IS 3315:2019	Direct Evaporative Air Cooler - Specification Fourth Revision
9	MED 3 (22552)	Commercial Beverage Coolers - Classification Requirements and Test Conditions Third Revision
10	MED 3 (24169)	Household and Similar Electrical Appliances - Safety Part 2-89 Particular Requirements for Commercial Refrigerating Appliances and Ice-Makers with an Incorporated or Remote Refrigerant Unit or Motor-Compressor IEC 60335-2-89 2019 MOD

Total Published Standards:59 Total Standards Under development:18

Aspect Wise Report

Product : 34
 Code of Practices : 2
 Methods of Test : 16
 Terminology : 3
 Dimensions : 0
 System Standard : 1
 Safety Standard : 2
 Others : 6
 Service Specification : 0
 Process Specification : 0
 Unclassified : 0

Annexure-I :List of Indian Standards Withdrawn/Superseded

Sl. No.	IS No. & Year	Title
1	IS 10609 : 1983 ISO 817 Reviewed In : 2009	Refrigerants - Number designation
2	IS 10617 (Part 1) : 1983 Reviewed In : 2007	Specification for Hermetic Compressors - Part 1 High Temperature Application Group
3	IS 10617 (Part 2) : 1983 Reviewed In : 2012	Hermetic Compressors - Part 2 Medium Temperature Application group
		Hermetic Compressors - Part 3 Low Temperature Application Group

4	IS 10617 (Part 3) : 1983 Reviewed In : 2012	
5	IS 11338 : 1985 Reviewed In : 2013	Thermostats for Use in Refrigerators Air Conditioners Water Coolers and Beverage Coolers
6	IS 1476 (Part 1) : 2000 Reviewed In : 2021	Performance of household refrigerating appliance - Refrigerators with or without low temperature compartment Part 1 energy consumption and performance Third Revision
7	IS 15750 : 2006 Reviewed In : 2022 ISO 15502:2005	Household frost - Free refrigerating appliances - Refrigerators cooled by internal forced air circulation - Characteristics and test methods - Specification
8	IS 1869 : 1961 Reviewed In : 2017	Specification for ice cans
9	IS 2374 : 1963 Reviewed In : 2017	Specification for ice tanks
10	IS 3621 : 1966 Reviewed In : 1991	Domestic Refrigerators absorption Type
11	IS 5038 : 1969 Reviewed In : 2017	Specification for ice cube trays for domestic refrigerators
12	IS 659 : 1964 Reviewed In : 2017	Safety code for air conditioning
13	IS 660 : 1963 Reviewed In : 2017	Safety code for mechanical refrigeration
14	IS/ISO 817 : 2005 Reviewed In : 2017 IS 16656:2017/ISO 817:2014	Refrigerants Designation System
15	IS 9210 : 1979 Reviewed In : 2017	Refrigerated Display Cabinets

Annexure-II :List of Indian Product Standards

Sl. No.	IS No. & Year	Title
1	IS 10594 : 2021 ISO/IEC TR 19795-3:2	Specification for Thermostatic Expansion Valves
2	IS 10617 : 2018 Reviewed In : 2022	Hermetic compressors - Specification Second Revision
3	IS 11327 : 2022 ISO 6789-1 : 2017	Requirements for Refrigerants Condensing Units Second Revision
4	IS 11328 : 2022 ISO 8000-120 : 2016	Self-contained Automatic Ice Makers Specification First Revision
5	IS 11329 : 2018 Reviewed In : 2022	Finned type heat exchanger for room air conditioner First Revision
6	IS 11330 : 2021 63042-301	Refrigeration Oil Separator General Specification Construction Requirements and Testing
7	IS 11951 : 2024	PUMPSET FOR DIRECT EVAPORATIVE AIR COOLER SPECIFICATION Second Revision
8	IS 12249 : 2021 IEC TS 62840-1:2016	Specification for Desiccant Driers
9	IS 1391 (Part 1) : 2023	Room Air Conditioners Specification Part 1 Unitary Air Conditioners Fourth Revision
10	IS 1391 (Part 2) : 2023	Room Air Conditioners Specification Part 2 Split Air Conditioners Fourth Revision
11	IS 1474 : 1959 Reviewed In : 2022	Specification for commercial refrigerators
12	IS 1475 (Part 1) : 2001 Reviewed In : 2022	Self - Contained drinking water coolers - Specification Part 1 energy consumption and performance Third Revision
13	IS 16590 : 2023	Liquid Chilling Package Units - Specification First Revision
14	IS 16672 (Part 2) : 2017	Refrigerated display cabinets Part 2 classification requirements and test conditions

	ISO 23953-2 : 2015 Reviewed In : 2021 ISO 23953-2 : 2015	
15	IS 16753 (Part 1) : 2022 ISO 29463-1 : 2017 ISO 28803 : 2012	High Efficiency Filters and Filter Media for removing Particles from Air Part 1 Classification Performance Testing and Marking First revision
16	IS 17550 (Part 1) : 2021 ISO 16620-4 : 2016	HOUSEHOLD REFRIGERATING APPLIANCES CHARACTERISTICS AND TEST METHODS Part 1 General Requirements
17	IS 17570 (Part 1) : 2021 ISO 16890-1:2016 11520-2:2001	Air Filters for general ventilation Part 1 Technical specifications requirements and classification system based upon particulate matter efficiency ePM Adoption of ISO 16890-1 2016
18	IS 17681 : 2022 ISO 13737:2004	Specification for Bottled water dispensers
19	IS 17693 : 2022 ISO 12967-2:2020	Non-electric Cooling Cabinet Made of Clay
20	IS 18801 : 2023 ISO 22041:2019	Refrigerated storage cabinets and counters for professional use Performance and energy consumption
21	IS 18802 : 2023 ISO 22042:2021	Blast chiller and freezer cabinets for professional use Classification requirements and test conditions
22	IS 2167 : 2019	Specification for bottle coolers Second Revision
23	IS 2370 : 2014 Reviewed In : 2019	Walk - In cold rooms - Specification First Revision
24	IS 302 (Part 2/Sec 24) : 1994 IEC 60335-2-24 Reviewed In : 2014 IEC Pub 335-2-24 (1992)	Safety of household and similar electrical appliances Part 2 particular requirements Sec 24 refrigerators food - Freezers and ice - Makers
25	IS 3315 : 2019	Evaporative air coolers Desert Coolers - Specification Third Revision
26	IS 4831 : 2019	Recommendation on units and symbols for refrigeration First Revision
27	IS 60335 (Part 2/Sec 34) : 2021 IEC 60335-2-34: 2021 IEC 60050-845: 2020	Household and similar electrical appliances Safety Part 2-34 Particular requirements for motor-compressors Adoption of IEC 60335-2-34 2021
28	IS/IEC 60335-2-40) : 2018 IEC 60335-2-40 60603-1 : 1991	Household and similar electrical appliances safety Particular requirements for electrical heat pumps air-conditioners and dehumidifiers Adoption of IEC 60335-2-40
29	IS/IEC 60335-2-89 : 2010 IEC 60335-2-89 : 2010 Reviewed In : 2023 IEC 60335-2-89:2010	Household and similar electrical appliances - Safety Part 2 - 89 particular requirements for commercial refrigerating appliances with an incorporated or remote refrigerant unit or compressor
30	IS 655 : 2006 Reviewed In : 2022 ISO 7807: 1983	Air ducts - Specification Second Revision
31	IS 7872 : 2020	Deep Freezers - Specification Second Revision
32	IS/ISO 8066-2 : 2001 ISO 8066-2:2001 ISO/TS 22331:2018	Rubber and Plastics Hoses and Hose Assemblies for Automotive Air Conditioning Specification Part 2 Refrigerant 134a Adoption of ISO 8066-2 2001
33	IS 8066 (Part 3) : 2020 ISO 8066-3:2020	Rubber and Plastics Hoses and Hose assemblies for Automotive Air Conditioning Specification Part 3 Refrigerant 1234yf Adoption of ISO 8066-3 2020

	ISO 22915-7 : 2016	
34	IS 8148 : 2018 Reviewed In : 2022 ISO 13253 : 2017 ISO 16358 (Part 1) : 2013	Ducted and package air - Conditioners - Specification Second Revision