The following abbreviations are used in this Schedule:

AC: Alternative current;

AFUE: Annual fuel utilization efficiency;

AHRI: Air-Conditioning, Heating, and Refrigeration Institute;

ANSI: American National Standards Institute;

ASHRAE: American Society of Heating, Refrigerating, and Air-Conditioning Engineers;

AV: Adjusted volume in litres; BLE: Ballast luminous efficiency;

Cap: Cooling capacity;

CCT: Correlated colour temperature;
CEER: Combined energy efficiency ratio;

CEI: International Electrotechnical Commission;

COP: Coefficient of performance;

COPc: Coefficient of performance for cooling;
COPh: Coefficient of performance for heating;
Cr: Daily water removal capacity in L/d;

CRI: Colour rendering index;

CSA: Canadian Standards Association;

Eannual: Annual energy consumption or calculated annual energy consumption in

kWh/y;

Edaily: Daily energy consumption or calculated daily energy consumption in kWh/d;

EER: Energy efficiency ratio;

EF: Efficiency factor;

Hm: Daily production cabability in kg/d;
HSPF: Heating seasonal performance factor;
IEER: Integrated energy efficiency ratio;
IES: Illuminating Engineering Society;

IPLV: Integrated part-load value;

ITE: Institute of Transportation Engineers; LE: Average lamp efficacy in Im/W;

LED: Light-emitting diode;

NEMA: National Electrical Manufacturers Association;

P: Rated wattage in watts;

PTAC: Packaged terminal air conditioner;
PTHP: Packaged terminal heat pump;
SEER: Seasonal energy efficiency ratio;

SL: Standby loss in watts;
TDA: Total display area;
TE: Thermal efficiency;
Vf: Freezer volume in litres;

Vn: Tank nominal volume in litres; Vr: Refrigerator volume in litres.

Categories, appliances and scope of application	Energy efficiency standard	Energy performance requirements	Manufacturing period
Category 1: Domestic	water heaters		I
1. Water heater			
propane-fired water heater with a capacity of 76 L (20 US gallons) or more and of 380 L (100 US gallons) or less and an input rating of 22 kW (75,000 Btu/h) or less. Units designed for combination space and water heating	Consumption and Determining Efficiencies of Gas-Fired Storage Water	EF ≥ 0.7 – 0.0005 × Vn	As of the coming into force of the Regulation
	CAN/CSA B211-00, Energy Efficiency of Oil-Fired Storage Tank Water Heaters	EF ≥ 0.59 – 0.0005 × Vn	As of the coming into force of the Regulation to 31 December 2017
combination space and	CAN/CSA B211-00, Energy Efficiency of Oil-Fired Storage Tank Water Heaters	EF ≥ 0.68 – 0.0005 × Vn	From 1 January 2018
3. Electric storage tank water heater with a capacity of 50 L (13 US		Tank with bottom inlet $Vn \ge 50 \text{ L} \text{ and } \le 270 \text{ L}: \text{ SL} \le 0.2 \times \text{Vn} + 40$ $Vn > 270 \text{ L} \text{ and } \le 454 \text{ L}: \text{ SL} \le 0.472 \times \text{Vn} - 33.5$ Tank with top inlet $Vn \ge 50 \text{ L} \text{ and } < 160 \text{ L}: \text{ SL} \le 0.2 \times \text{Vn} + 35$ $Vn \ge 160 \text{ L} \text{ and } < 270 \text{ L}: \text{ SL} \le 0.2 \times \text{Vn} + 25$ $Vn \ge 270 \text{ L} \text{ and } \le 290 \text{ L}: \text{ SL} \le 0.472 \times \text{Vn} - 48.5$ $Vn > 290 \text{ L} \text{ and } \le 454 \text{ L}: \text{ SL} \le 0.472 \times \text{Vn} - 38.5$	As of the coming into force of the Regulation
Category 2: Heating or 1. Gas-fired unit heater	air-conditioning appliances		
Gas-fired unit heater, automatically controlled, vented, that	CAN/CSA P.11-07, Testing method for measuring efficiency and energy consumption of gas-fired unit	TE ≥ 80% at the maximum heat input nominal capacity and must be equipped with an intermittent ignition device and - a power-vented system; - an automatic vent damper; or - an automatic flue damper.	
2. Boilers			

Categories, appliances and scope of application	Energy efficiency standard	Energy performance requirements	Manufacturing period
propane boiler designed to be connected to a low	method for measuring the annual fuel utilization efficiency of residential gas- fired or oil-fired furnaces and		coming into
designed to be connected to a low pressure steam or hot water central heating system equipped or not with tankless domestic water heating coils, that operates using oil or	method for measuring the annual fuel utilization efficiency of residential gasfired or oil-fired furnaces and boilers or ANSI/ASHRAE 103-2007, Method of Testing for Annual Fuel Utilization Efficiency of Residential Central Furnaces and Boilers	Boiler designed for a hot water system and not equipped with heating coils: AFUE ≥ 84%, must be equipped with an automatic water temperature adjustment device and not operable without the device	As of the coming into force of the Regulation
3. Electric boiler designed to be connected to a hot water central heating system with a heat input of less than 88 kW (300,000 Btu/h) and that is not equipped with tankless domestic water heating coils.	N/A	Equipped with an automatic water temperature adjustment device and not operable without the device	As of the coming into force of the Regulation
3. Central air condition	ers and heat pumps (single-p	package or split-system)	
central air conditioner or heat pump, that uses	split-system and single- package air conditioners and	· ·	
2. Space constrained split-system or single package air conditioner or heat pump, that uses	Performance standard for	SEER ≥ 12, HSPF region V ≥ 6.4 and power consumption in off mode ≤ 30 W for an air conditioner or ≤ 33 W for a heat pump	

Categories, appliances and scope of application	Energy efficiency standard	Energy performance requirements	Manufactu period	ring
capacity of less than 19 kW (65,000 Btu/h). Wall units are included.				
3. Split-system central air conditioner other than a small-duct and high-velocity air conditioner or an air conditioner for constrained spaces, that uses single-phase electric current, with a cooling capacity of less than 19 kW (65,000 Btu/h).	Performance standard for split-system and single-package air conditioners and	SEER ≥ 13 and power consumption in off mode ≤ 30 W	As of coming force of Regulation	the into the
	Performance standard for	SEER ≥ 14, HSPF region V ≥ 7.1 and power consumption in off mode ≤ 33 W	As of coming force of Regulation	the into the
1 -	Performance standard for split-system and single-package air conditioners and heat pumps	SEER ≥ 12, HSPF region V ≥ 6.3 and power consumption in off mode ≤ 30 W	As of coming force of Regulation	the into the
conditioner or heat pump, that uses three-	package air conditioners and	SEER ≥ 13 and HSPF region V ≥ 6.7	As of coming force of Regulation	the into the
4. Large air conditione	rs and heat pumps			
Large commercial or industrial unitary airconditioner, air-cooled, without a heating section or with an electric heating section.	CAN/CSA C746-06, Performance standard for rating large and single	Cap ≥ 19 kW (65,000 Btu/h) and < 40 kW (135,000 Btu/h): EER ≥ 11.2 and IEER ≥ 11.4 Cap ≥ 40 kW (135,000 Btu/h) and < 70 kW (240,000 Btu/h): EER ≥ 11 and IEER ≥ 11.2 Cap ≥ 70 kW (240,000 Btu/h) and < 223 kW (760,000 Btu/h): EER ≥ 10 and IEER ≥ 10.1	coming force of Regulation	the into the
2. Large commercial or industrial unitary airconditioner, air-cooled, with a heating section other than an electric heating section.	CAN/CSA C746-06, Performance standard for rating large and single	Cap ≥ 19 kW (65,000 Btu/h) and < 40 kW (135,000 Btu/h): EER ≥ 11 and IEER ≥ 11.2 Cap ≥ 40 kW (135,000 Btu/h) and < 70 kW (240,000 Btu/h): EER ≥ 10.8 and IEER ≥ 11	As of coming force of Regulation	the into the

Categories, appliances and scope of application	Energy efficiency standard	Energy performance requirements	Manufacturing period
	For IEER: ANSI/AHRI 340/360-2007, Performance Rating of Commercial and Industrial Unitary Air-Conditioning and Heat Pump Equipment		
3. Large commercial or industrial unitary airconditioner, watercooled, without a heating section or with an electric heating section. Variable flow units are excluded.	CAN/CSA C746-06, Performance standard for rating large and single packaged vertical air conditioners and heat pumps	Cap \geq 40 kW (135,000 Btu/h) and < 70 kW (240,000 Btu/h): EER \geq 12.5 and IEER \geq 11.2 Cap \geq 70 kW (240,000 Btu/h) and < 223 kW (760,000 Btu/h): EER \geq 12.4 and IEER \geq 11.1	coming into force of the Regulation
cooled, with a heating section other than an	CAN/CSA C746-06, Performance standard for rating large and single packaged vertical air conditioners and heat pumps	Cap ≥ 40 kW (135,000 Btu/h) and < 70 kW (240,000 Btu/h): EER ≥ 12.3 and IEER ≥ 11 Cap ≥ 70 kW (240,000 Btu/h) and < 223 kW (760,000 Btu/h): EER ≥ 12.2 and IEER ≥ 10.9	coming into force of the Regulation
electric heating section.	CAN/CSA C746-06, Performance standard for rating large and single packaged vertical air conditioners and heat pumps	Cap ≥ 40 kW (135,000 Btu/h) and < 70 kW (240,000 Btu/h): EER ≥ 12 and IEER ≥ 11.2 Cap ≥ 70 kW (240,000 Btu/h) and < 223 kW (760,000 Btu/h): EER ≥ 11.9 and IEER ≥ 11.1	As of the coming into force of the Regulation
heating section.	CAN/CSA C746-06, Performance standard for rating large and single	Cap ≥ 40 kW (135,000 Btu/h) and < 70 kW (240,000 Btu/h): EER ≥ 11.8 and IEER ≥ 11 Cap ≥ 70 kW (240,000 Btu/h) and < 223 kW (760,000 Btu/h): EER ≥ 11.7 and IEER ≥ 10.9	coming into force of the Regulation
evaporation-cooled,	CAN/CSA C746-06, Performance standard for rating large and single		As of the coming into force of the Regulation

Categories, appliances and scope of application	Energy efficiency standard	Energy performance requirements	Manufacturin period	ng
	For IEER: ANSI/AHRI 340/360-2007, Performance Rating of Commercial and Industrial Unitary Air-Conditioning and Heat Pump Equipment	Cap ≥ 70 kW (240,000 Btu/h) and < 223 kW (760,000 Btu/h): EER ≥ 11 and IEER ≥ 11.1		
evaporation-cooled,	CAN/CSA C746-06, Performance standard for rating large and single packaged vertical air conditioners and heat pumps	Cap ≥ 40 kW (135,000 Btu/h) and < 70 kW (240,000 Btu/h): EER ≥ 10.8 and IEER ≥ 11 Cap ≥ 70 kW (240,000 Btu/h) and < 223 kW (760,000 Btu/h): EER ≥ 10.8 and IEER ≥ 10.9	coming in	he nto he
without a heating section or with an	CAN/CSA C746-06, Performance standard for rating large and single packaged vertical air conditioners and heat pumps For IEER: ANSI/AHRI 340/360-2007, Performance Rating of Commercial and Industrial		coming in force of the Regulation	he nto he
10. Large commercial or industrial unitary heat pump, air-cooled, with a heating section other than an electric heating section.	CAN/CSA C746-06, Performance standard for rating large and single packaged vertical air conditioners and heat pumps For IEER: ANSI/AHRI 340/360-2007, Performance Rating of Commercial and Industrial	at 8.3°C ≥ 3.2 and COP at -8.3°C ≥ 2.05 Cap ≥ 70 kW (240,000 Btu/h) and < 223 kW	coming in force of the Regulation	he nto he
section or with an	CAN/CSA C746-06, Performance standard for rating large and single packaged vertical air conditioners and heat pumps For IEER: ANSI/AHRI 340/360-2007, Performance Rating of Commercial and Industrial	at 8.3°C ≥ 3.2 and COP at -8.3°C ≥ 2.05 Cap ≥ 70 kW (240,000 Btu/h) and < 223 kW	coming in	he nto he
12. Large commercial or industrial unitary heat pump, water-cooled, with a heating section	CAN/CSA C746-06, Performance standard for	Cap ≥ 19 kW (65,000 Btu/h) and < 40 kW (135,000 Btu/h): EER ≥ 11.9, IEER ≥ 11, COP at 8.3°C ≥ 3.3 and COP at -8.3°C ≥ 2.25	coming in	he ito he

Categories, appliances and scope of application	Energy efficiency standard	Energy performance requirements	Manufacturing period
other than an electric heating section. Variable flow units are excluded.	conditioners and heat pumps For IEER: ANSI/AHRI 340/360-2007, Performance Rating of Commercial and Industrial	Cap ≥ 40 kW (135,000 Btu/h) and < 70 kW (240,000 Btu/h): EER ≥ 12.3, IEER ≥ 10.5, COP at 8.3° C ≥ 3.2 and COP at -8.3° C ≥ 2.05 Cap ≥ 70 kW (240,000 Btu/h) and < 223 kW (760,000 Btu/h): EER ≥ 12.2, IEER ≥ 9.4, COP at 8.3° C ≥ 3.2 and COP at -8.3° C ≥ 2.05	
	CAN/CSA C746-06, Performance standard for rating large and single packaged vertical air conditioners and heat pumps For IEER: ANSI/AHRI 340/360-2007, Performance Rating of Commercial and Industrial	at 8.3°C ≥ 3.3 and COP at -8.3°C ≥ 2.25 Cap ≥ 40 kW (135,000 Btu/h) and < 70 kW	As of the coming into force of the Regulation
cooled, with a heating section other than an	CAN/CSA C746-06, Performance standard for rating large and single packaged vertical air conditioners and heat pumps For IEER: ANSI/AHRI 340/360-2007, Performance Rating of Commercial and Industrial	Cap ≥ 19 kW (65,000 Btu/h) and < 40 kW (135,000 Btu/h): EER ≥ 11.9, IEER ≥ 11, COP at 8.3° C ≥ 3.3 and COP at -8.3° C ≥ 2.25 Cap ≥ 40 kW (135,000 Btu/h) and < 70 kW (240,000 Btu/h): EER ≥ 11.8, IEER ≥ 10.5, COP at 8.3° C ≥ 3.2 and COP at -8.3° C ≥ 2.05 Cap ≥ 70 kW (240,000 Btu/h) and < 223 kW (760,000 Btu/h): EER ≥ 11.7, IEER ≥ 9.4, COP at 8.3° C ≥ 3.2 and COP at -8.3° C ≥ 2.05	
water-cooled, without a heating section or with	CAN/CSA C746-06, Performance standard for rating large and single packaged vertical air conditioners and heat pumps For IEER: ANSI/AHRI 340/360-2007, Performance Rating of Commercial and Industrial	Cap ≥ 19 kW (65,000 Btu/h) and < 40 kW (135,000 Btu/h): EER ≥ 12, IEER ≥ 11.2, COP at 8.3° C ≥ 3.3 and COP at -8.3° C ≥ 2.25 Cap ≥ 40 kW (135,000 Btu/h) and < 70 kW (240,000 Btu/h): EER ≥ 10.6, IEER ≥ 10.7, COP at 8.3° C ≥ 3.2 and COP at -8.3° C ≥ 2.05 Cap ≥ 70 kW (240,000 Btu/h) and < 223 kW (760,000 Btu/h): EER ≥ 10, IEER ≥ 9.6, COP at 8.3° C ≥ 3.2 and COP at -8.3° C ≥ 2.05	
water-cooled, with a heating section other	CAN/CSA C746-06, Performance standard for rating large and single packaged vertical air conditioners and heat pumps For IEER: ANSI/AHRI 340/360-2007, Performance Rating of Commercial and Industrial	Cap ≥ 19 kW (65,000 Btu/h) and < 40 kW (135,000 Btu/h): EER ≥ 12, IEER ≥ 11, COP at 8.3° C ≥ 3.3 and COP at -8.3° C ≥ 2.25 Cap ≥ 40 kW (135,000 Btu/h) and < 70 kW (240,000 Btu/h): EER ≥ 10.4, IEER ≥ 10.5, COP at 8.3° C ≥ 3.2 and COP at -8.3° C ≥ 2.05 Cap ≥ 70 kW (240,000 Btu/h) and < 223 kW (760,000 Btu/h): EER ≥ 9.8, IEER ≥ 9.4, COP at 8.3° C ≥ 3.2 and COP at -8.3° C ≥ 2.05	

Categories, appliances and scope of application	Energy efficiency standard	Energy performance requirements	Manufacturing period
_	CAN/CSA C746-06, Performance standard for rating large and single packaged vertical air conditioners and heat pumps For IEER: ANSI/AHRI 340/360-2007, Performance Rating of Commercial and Industrial	Cap ≥ 19 kW (65,000 Btu/h) and < 40 kW (135,000 Btu/h): EER ≥ 11, IEER ≥ 11.2, COP at 8.3° C ≥ 3.3 and COP at -8.3°C ≥ 2.25 Cap ≥ 40 kW (135,000 Btu/h) and < 70 kW (240,000 Btu/h): EER ≥ 10.6, IEER ≥ 10.7, COP at 8.3° C ≥ 3.2 and COP at -8.3°C ≥ 2.05 Cap ≥ 70 kW (240,000 Btu/h) and < 223 kW (760,000 Btu/h): EER ≥ 9.5, IEER ≥ 9.6, COP at 8.3° C ≥ 3.2 and COP at -8.3°C ≥ 2.05	
18. Large commercial or industrial variable flow unitary heat pump, evaporation-cooled, with a heating section other than an electric heating section.	CAN/CSA C746-06, Performance standard for rating large and single packaged vertical air conditioners and heat pumps For IEER: ANSI/AHRI 340/360-2007, Performance Rating of Commercial and Industrial	Cap ≥ 19 kW (65,000 Btu/h) and < 40 kW (135,000 Btu/h): EER ≥ 10.8, IEER ≥ 11, COP at 8.3° C ≥ 3.3 and COP at -8.3° C ≥ 2.25 Cap ≥ 40 kW (135,000 Btu/h) and < 70 kW (240,000 Btu/h): EER ≥ 10.4, IEER ≥ 10.5, COP at 8.3° C ≥ 3.2 and COP at -8.3° C ≥ 2.05 Cap ≥ 70 kW (240,000 Btu/h) and < 223 kW (760,000 Btu/h): EER ≥ 9.3, IEER ≥ 9.4, COP at 8.3° C ≥ 3.2 and COP at -8.3° C ≥ 2.05	
	CAN/CSA C368.1-14, Energy performance of room air conditioners	With louvred sides, without reverse cycle Cap < 1.75 kW (6,000 Btu/h): CEER ≥ 11 Cap ≥ 1.75 kW (6,000 Btu/h) and < 2.33 kW (8,000 Btu/h): CEER ≥ 11 Cap ≥ 2.33 kW (8,000 Btu/h) and < 4.08 kW (14,000 Btu/h): CEER ≥ 10.9 Cap ≥ 4.08 kW (14,000 Btu/h) and < 5.83 kW (20,000 Btu/h): CEER ≥ 10.7 Cap ≥ 5.83 kW (20,000 Btu/h) and < 8.17 kW (28,000 Btu/h): CEER ≥ 9.4 Cap ≥ 8.17 kW (28,000 Btu/h): CEER ≥ 9 With louvred sides, with reverse cycle Cap < 8.17 kW (20,000 Btu/h): CEER ≥ 9.8 Cap ≥ 8.17 kW (20,000 Btu/h): CEER ≥ 9.3 Without louvred sides, without reverse cycle Cap ≥ 1.75 kW (6,000 Btu/h): CEER ≥ 10 Cap ≥ 2,33 kW (8,000 Btu/h) and < 2.33 kW (8,000 Btu/h): CEER ≥ 10 Cap ≥ 2,33 kW (8,000 Btu/h) and < 3.21 kW (11,000 Btu/h): CEER ≥ 9.6 Cap ≥ 3.21 kW (11,000 Btu/h) and < 4.08 kW	As of 1 January 2017

Categories, appliances and scope of application	Energy efficiency standard	Energy performance requirements	Manufacturing period	
		Cap ≥ 4.08 kW (14,000 Btu/h) and < 8.17 kW (20,000 Btu/h): CEER ≥ 9.3		
		Cap ≥ 8.17 kW (20,000 Btu/h): CEER ≥ 9.4		
		Without louvred sides, with reverse cycle Cap < 4.08 kW (14,000 Btu/h): CEER ≥ 9.3		
		Cap ≥ 4.08 kW (14,000 Btu/h): CEER ≥ 8.7		
		Unit for casement window only: CEER ≥ 9.5		
		Unit for casement or sliding window: CEER ≥ 10.4		
6. Packaged terminal a	ir conditioners and heat pum	ps		
1. Factory-built	AHRI 310/380-2004	PTAC: standard size	As of the	
packaged terminal air		Cap < 2,030 W (7,000 Btu/h): EER ≥ 11.7	coming into force of the	
	conditioners and heat pumps	Cap ≥ 2,030 W (7,000 Btu/h) and ≤ 4,390 W (15,000 Btu/h): EER ≥ 13.8 – (0.300 × Cap / 293.1)	Regulation	
cooling component and that is intended to cool		Cap > 4,390 W (15,000 Btu/h): EER ≥ 9.3		
a single room or zone, or that consists of a wall sleeve and a separate		PTAC: non-standard size Cap < 2,030 W (7,000 Btu/h): EER ≥ 9.4		
unencased combination of heating and cooling components and that is		Cap ≥ 2,030 W (7,000 Btu/h) and ≤ 4,390 W (15,000 Btu/h): EER ≥ 10.9 – (0.213 × Cap / 293.1)		
intended to heat and cool a single room or		Cap > 4,390 W (15,000 Btu/h): EER ≥ 7.7		
zone.		PTHP : standard size		
		Cap < 2,030 W (7,000 Btu/h): EER ≥ 11.9 and COP ≥ 3.3		
		Cap \geq 2,030 W (7,000 Btu/h) and \leq 4,390 W (15,000 Btu/h): EER \geq 14.0 – (0.300 × Cap / 293.1) and COP \geq 3.7 – (0.052 × Cap)		
		Cap > 4,390 W (15,000 Btu/h): EER ≥ 9.5 and COP ≥ 2.9		
		PTHP : non-standard size		
		Cap < 2,030 W (7,000 Btu/h): EER ≥ 9.3 and COP ≥ 2.7		
		Cap ≥ 2,030 W (7,000 Btu/h) and ≤ 4,390 W (15,000 Btu/h): EER ≥ $10.8 - (0.213 \times \text{Cap})$ and COP ≥ $2.9 - (0.026 \times \text{Cap})$		
		Cap > 4,390 W (15,000 Btu/h): EER ≥ 7.6 and COP ≥ 2.5		
7. Single packaged ver	. Single packaged vertical air conditioners and heat pumps			
commercial air	CAN/CSA C746-06, Performance standard for rating large and single		As of the coming into	

Categories, appliances and scope of application	Energy efficiency standard	Energy performance requirements	Manufactur period	ring
pump, that is air-cooled, encased, with or without heating capability but not a heat pump, the major components of which are arranged vertically and that is intended for mounting through, or on either side of, an exterior wall.	conditioners and heat pumps	Cap ≥ 19 kW (65,000 Btu/h) and < 39.5 kW (135,000 Btu/h): EER ≥ 8.9 and COP ≥ 3 Cap ≥ 39.5 kW (135,000 Btu/h): EER ≥ 8.6 and COP ≥ 2.9	force of Regulation	the
8. Internal water loop h	neat pumps			
pump that is a factory- built single package or a split-system matching	performance — Part 1: Water- to-air and brine-to-air heat pumps	Cap < 5 kW: COPc ≥ 3.28 for an input water temperature of 30°C and COPh ≥ 4.2 for an input water temperature of 20°C Cap ≥ 5 and < 40 kW : COPc ≥ 3.52 for an input water temperature of 30°C and COPh ≥ 4.2 for an input water temperature of 20°C		the into the
9. Ground-source heat	pumps			
pump that is a factory- built single package or a split-system matching	Testing and rating for performance — Part 1: Water-to-air and brine-to-air heat pumps		coming	the into the
10. Furnaces				
propane furnace, that uses single-phase electric current and that	method for measuring the annual fuel utilization efficiency of residential gas-		coming force of	the into the
2. Natural gas or propane furnace, that uses three-phase electric current and that has an input rate of 65.92 kW (225,000 Btu/h) or less, but does not include a furnace for a mobile home or a recreational vehicle.	furnaces		As of coming force of Regulation	the into the

Categories, appliances and scope of application	Energy efficiency standard	Energy performance requirements	Manufactu period	ring
3. Gas furnace that has an input rate of more than 65.92 kW (225,000 Btu/h) and not more than 117.23 kW (400,000 Btu/h).	2012, Gas-fired central furnaces	Furnace for a mobile home or a recreational vehicle: TE ≥ 75% and must not be equipped with a continuously burning pilot light For all other furnaces: TE ≥ 80% and must not be equipped with a continuously burning pilot light		the into the
65.92 kW (225,000 Btu/h) or less	method for measuring the annual fuel utilization efficiency of residential gas- fired or oil-fired furnaces and		coming force of	the into the
11. Condensing units				
unit intended for air conditioning	Performance standard for rating large and single packaged vertical air conditioners and heat pumps	Air-cooled: EER ≥ 10.1 Water-cooled or evaporation-cooled: EER ≥ 13.1	As of coming force of Regulation	the into the
12. Chillers				
	Performance Standard for rating packaged water chillers	Vapour compression Air-cooled with or without a condenser, capacity < 528 kW, type A: COP ≥ 2.802 and IPLV ≥ 3.664 Air-cooled with or without a condenser, capacity ≥ 528 kW, type A: COP ≥ 2.802 and IPLV ≥ 3.737 Water, alternating, type A, type B All water-cooled appliances, reciprocating, type A, type B, must meet the energy performance requirements for water-cooled appliances, rotary screw or scroll Water-cooled, rotary screw, scroll, capacity < 264 kW, type A: COP ≥ 4.509 and IPLV ≥ 5.582 Water-cooled, rotary screw, scroll, capacity < 264 kW, type B: COP ≥ 4.396 and IPLV ≥ 5.861 Water-cooled, rotary screw, scroll, capacity ≥ 264 and < 528 kW, type A: COP ≥ 4.538 and IPLV ≥ 5.718	_	the into the

Categories, appliances and scope of application	Energy efficiency standard	Energy performance requirements	Manufacturin period
		Water-cooled, rotary screw, scroll, capacity \geq 264 and $<$ 528 kW, type B: COP \geq 4.452 and IPLV \geq 6.001	
		Water-cooled, rotary screw, scroll, capacity ≥ 528 and < 1,055 kW, type A: COP ≥ 5.172 and IPLV ≥ 6.063	
		Water-cooled, rotary screw, scroll, capacity ≥ 528 and < 1,055 kW, type B: COP ≥ 4.898 and IPLV ≥ 6.513	
		Water-cooled, rotary screw, scroll, capacity ≥ 1,055 kW, type A: COP ≥ 5.672 and IPLV ≥ 6.513	
		Water-cooled, rotary screw, scroll, capacity ≥ 1,055 kW, type B: COP ≥ 5.504 and IPLV ≥ 7.177	
		Water-cooled, centrifugal, capacity < 264 kW, type A: COP ≥ 5.547 and IPLV ≥ 5.901	
		Water-cooled, centrifugal, capacity < 264 kW, type B: COP ≥ 5.504 and IPLV ≥ 7.815	
		Water-cooled, centrifugal, capacity \geq 264 and $<$ 528 kW, type A: COP \geq 5.547 and IPLV \geq 5.901	
		Water-cooled, centrifugal, capacity ≥ 264 and < 528 kW, type B: COP ≥ 5.504 and IPLV ≥ 7.815	
		Water-cooled, centrifugal, capacity ≥ 528 and < 1,055 kW, type A: COP ≥ 6.1 and IPLV ≥ 6.401	
		Water-cooled, centrifugal, capacity ≥ 528 and < 1,055 kW, type B: COP ≥ 5.856 and IPLV ≥ 8.792	
		Water-cooled, centrifugal, capacity ≥ 1,055 kW, type A: COP ≥ 6.170 and IPLV ≥ 6.525	
		Water-cooled, centrifugal, capacity ≥ 1,055 kW, type B: COP ≥ 5.961 and IPLV ≥ 8.792	
		Absorption Single-effect, air-cooled, all capacities, type A: COP ≥ 0.6	
		Single-effect, air-cooled, all capacities, type A: COP ≥ 0.7	
		Double-effect absorption, indirect-fired, all capacities, type A: COP ≥ 1 and IPLV ≥ 1.05 Double-effect absorption, direct-fired, all	
		Double-effect absorption, direct-fired, all capacities, type A: COP ≥ 1 and IPLV ≥ 1	

Categories, appliances and scope of application	Energy efficiency standard	Energy performance requirements	Manufacturing period
switching of a controlled resistive heating load (120 to 240 V). Thermostats used	Performance requirements for thermostats used with		coming into force of the
14. Ceiling fans			
industrial or commercial suspended or hugger ceiling fan designed to be connected to supply	performance of ceiling fans The service value must be measured in accordance with		•
	NEMA/ANSI C82.77-2002, Harmonic emission limits – related power quality	For all ballasts, the requirements respecting harmonic rates must be met. Ballasts must have a power factor of at least 90%. In the case of ballasts designed and marked for residential use	coming into force of the
	equipment N/A	at 120 V, a power factor of 50% or more must be deemed to be acceptable. BLE ≥ A / (1 + B × total lamp arc power (-C)) where A, B and C correspond to:	regulation
rapid-start ballast (other than residential ballasts) designed to operate lamps commonly referred to as: (a) 1,200 mm medium bipin lamps, (b) 600 mm U-shaped lamps or (c) 2,400 mm	CAN/CSA - C654-14, Fluorescent lamp ballast efficacy measurements	277 V: A = 0.993, B = 0.27 and C = 0.25 347 V: A = 0.963, B = 0.27 and C = 0.25	As of the coming into force of the Regulation
ballast (other than	CAN/CSA - C654-14, Fluorescent lamp ballast efficacy measurements	277 V: A = 0.993, B = 0.51 and C = 0.37 347 V: A = 0.963, B = 0.51 and C = 0.37	As of the coming into force of the Regulation

Categories, appliances and scope of application	Energy efficiency standard	Energy performance requirements	Manufactur period	ing
rapid-start ballast (other	CAN/CSA - C654-14, Fluorescent lamp ballast efficacy measurements	277 V: A = 0.993, B = 0.38 and C = 0.25 347 V: A = 0.963, B = 0.38 and C = 0.25	As of coming force of Regulation	the into the
,		277 V: A = 0.973, B = 0.70 and C = 0.37 347 V: A = 0.944, B = 0.70 and C = 0.37	As of coming force of Regulation	the into the
6. Sign ballast that	Fluorescent lamp ballast	277 V: A = 0.993, B = 0.47 and C = 0.25 347 V: A = 0.963, B = 0.47 and C = 0.25	As of coming force of Regulation	the into the
7. Residential instant- start and rapid-start	I	120 V: A = 0.993, B = 0.41 and C = 0.25	As of coming force of Regulation	the into the
programmed-start	CAN/CSA - C654-14, Fluorescent lamp ballast efficacy measurements	120 V: A = 0.973, B = 0.71 and C = 0.37	As of coming force of Regulation	the into the
2. Exit signs				
1. Types 1, 2 and 3 exit sign, as referred to in CAN/CSA C860-11.	CAN/CSA C860-11, Performance of internally lighted exit signs			the into the
3. General service fluo	rescent lamps			
	Performance of general service fluorescent lamps	CCT ≤ 4,500 K: LE ≥ 84 CCT > 4,500 and ≤ 7,000 K: LE ≥ 81	As of 1 Janua 2019	ary

Categories, appliances and scope of application	Energy efficiency standard	Energy performance requirements	Manufacturing period
general service	service fluorescent lamps	CCT ≤ 4,500 K: LE ≥ 89 CCT > 4,500 and ≤ 7,000 K: LE ≥ 88	As of 1 January 2019
3. Straight-shaped slimline general service	service fluorescent lamps	CCT ≤ 4,500 K: LE ≥ 97 CCT > 4,500 and ≤ 7,000 K: LE ≥ 93	As of 1 January 2019
4. Straight-shaped high output fluorescent lamp	-	CCT ≤ 4,500 K: LE ≥ 92 CCT > 4,500 and ≤ 7,000 K: LE ≥ 88	As of 1 January 2019
miniature standard	CAN/CSA C819-11, Performance of general service fluorescent lamps	CCT ≤ 4,500 K: LE ≥ 86 CCT > 4,500 and ≤ 7,000 K: LE ≥ 81	As of 1 January 2019
6. Straight-shaped miniature high output	service fluorescent lamps	CCT ≤ 4,500 K: LE ≥ 76 CCT > 4,500 and ≤ 7,000 K: LE ≥ 72	As of 1 January 2019
4. General service inca	indescent reflector lamps		
1. Incandescent and tungsten halogen reflector lamp designed for general lighting that has a rated wattage of less than 205 W, but	Performance of incandescent reflector lamps	Standard spectrum, diameter > 6.35 cm and voltage \geq 125 V: LE \geq 6.8(P) 0,27 Standard spectrum, diameter > 6.35 cm and voltage < 125 V: LE \geq 5.9(P) $^{0.27}$	coming into force of the
greater than 40 W, an operating capability included between 110 and 130 V, an E26/24		Standard spectrum, diameter ≤ 6.35 cm and voltage ≥ 125 V: LE ≥ 5.7 (P) $^{0.27}$ Standard spectrum, diameter ≤ 6.35 cm and	
single contact or E26/50x39 skirted, medium screw base and a bulb diameter		voltage < 125 V: LE \geq 5.0(P) $^{0.27}$ Modified spectrum, diameter > 6.35 cm and voltage \geq 125 V: LE \geq 5.8(P) $^{0.27}$	
greater than 57 mm.		Modified spectrum, diameter > 6.35 cm and voltage < 125 V: LE \geq 5.0(P) $^{0.27}$	
		Modified spectrum, diameter ≤ 6.35 cm and voltage ≥ 125 V: LE ≥ $4.9(P)^{0.27}$	
		Modified spectrum, diameter ≤ 6.35 cm and voltage < 125 V: LE ≥ $4.2(P)^{0.27}$ ER30 and ER40 ≥ 40 W and < 50 W: LE ≥: 10.5	
		ER30 and ER40 ≥ 40 W and < 50 W. LE ≥. 10.5 ER30 and ER40 50 W: LE ≥ 7.0	

Categories, appliances and scope of application	Energy efficiency standard	Energy performance requirements	Manufacturing period
		ER40 65 W: LE ≥ 12.5	
5. General service lam	os		
1. Electrical device providing a luminous flux having a nominal voltage of not less than 110 V and not more than 130 V or a nominal voltage range included at least partially between those voltages and that is screwbased. The following lamps are excluded: (a) appliance lamps; (b) coloured lamps; (c) infrared lamps; (d) sphericalshaped (G-shaped) lamps referred to in ANSI C78.20-2003, A, G, PS, and Similar Shapes with E26 Medium Screw Bases, and ANSI C79.1-2002, Nomenclature for Glass Bulbs Intended for Use with Electric Lamps, with a diameter of at least 13 cm; (e) lamps for display cases; (f) left-hand thread base lamps; (g) plant lamps; (h) reflector lamps that have a shape indicated in ANSI C79.1-2002; (i) sign service lamps; (j) silver bowl lamps; (k) traffic signal module or pedestrian traffic signal module and street lights; (l) submersible lamps; (m) screw-based lamps E5, E10, E11, E12, E17, E26/50×39,	NEMA/ANSI C82.77-2002, Harmonic emission limits – related power quality requirements for lighting equipment For En: IES LM-45-15, IES Approved Method for the Electrical and Photometric Measurement of General Service Incandescent Filament Lamps or IES LM-66-14, IES Approved Method for the Electrical and Photometric Measurements of Single- Based Fluorescent Lamps, or LM-79-08, IES Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products. For life: IES LM-49-12, IES Approved Method for Life Testing of General Lighting Incandescent Filament Lamps or IES LM-65-14, IES Approved Method for Life Testing of Single-Based Fluorescent Lamps, or IES LM - 80 - 15, IES Approved Method: Measuring Luminous Flux and Color Maintenance of LED Packages, Arrays and Modules For CRI: CIE 13.3-1995, Method of Measuring and Specifying Colour Rendering Properties of Light Sources	factor must be at least 90%. For general service lamps: LE ≥ 45, CRI ≥ 80 and life ≥ 1,000 hours For modified spectrum lamps: LE ≥ 45, CRI ≥ 75 and life ≥ 1,000 hours	_

module: self-contained device that consists of all of the optical components required for its operation and is self-contained device that consists of all of the optical self-contained device that consists of all of the optical components required for its operation and is self-contained device that consists of all of the optical components required for its operation and is self-contained device that consists of all of the optical components with movement information and to fit into a pedestrian signal housing. TE, Pedestrian Traffic signal Modules, August contained device that consists of all of the optical components is designed to provide pedestrians with movement information and to fit into a pedestrian signal housing. TE, Pedestrian Traffic signal Modules, August contained device that consists of all of the optical components is designed to provide pedestrians with movement information and to fit into a pedestrian signal housing. TE, Pedestrian Traffic signal Modules, August contained device that consists of all of the optical components is designed to provide pedestrians with movement information and to fit into a pedestrian signal housing. Torchieres Canical C	Categories, appliances and scope of application	Energy efficiency standard	Energy performance requirements	Manufactu period	ring
TE. Vehicle Traffic Control A red light that has a diameter of device that consists of all of the optical components required for its operation and is designed to provide drivers with movement information and to fit into a pedestrian signal module: self-corporation and is official for provide drivers with movement information and to fit into a traffic signal module: self-corporation and is designed to provide drivers with movement information and to fit into a traffic signal module: self-corporation and is designed to provide drivers with movement information and to fit into a pedestrian signal housing. 1. Pedestrian Traffic Combination of walking person and hand nominal wattage of 12 W and nominal wattage of 12 W and nominal wattage of 13 W and nominal wattage of 12 W and nominal wattage of 13 W and nominal wattage of 12 W and nominal wattage of 13 W and nominal wattage of 14 W and nominal wattage of 15 W and nominal wattage of 15 W and nominal wattage of 15 W and nominal wattage of 12 W and nominal wattage of 13 W and nominal wattage of 13 W and nominal wattage of 14 W and nominal wattage of 15 W and nominal wattage of 16 W and nominal wattage of 16 W and nominal wattage of 18 W an	lamps; (p) vibration service lamps; (q) shatter resistant lamps, including safety lamps and shock resistant lamps; and				
Signal Heads: LED Circular 304.8 mm: maximum wattage of 17 W and nominal wattage of 17 W and policial components required for its operation and to fit into a traffic signal module: self-components required components required for its operation and to fit into a traffic signal module: self-components required for its operation and to fit into a traffic signal module: self-components required for its operation and to it into a provide pedestrians with movement information and to fit into a predestrian signal housing. Signal Heads: LED Circular and to fit into a person and to fit into a provide pedestrian signal housing. Signal Heads: LED Circular and nominal wattage of 11 W and nominal wattage of 12 W and nominal wattage of 12 W and nominal wattage of 15 W and nominal wattage of 15 W and nominal wattage of 15 W and nominal wattage of 12 W and nominal wattage of 12 W and nominal wattage of 12 W and nominal wattage of 13 W and nominal wattage of 14 W and nominal wattage of 15 W and nominal wattage of 16 W and nominal wattage of 18 W and nominal wattag	6. Traffic signal modul	es			
A red arrow: maximum wattage of 12 W and nominal wattage of 9 W A green light that has a diameter of 304.8 mm: maximum wattage of 15 W and nominal wattage of 15 W and nominal wattage of 15 W A green light that has a diameter of 203.2 mm: maximum wattage of 12 W and nominal wattage of 12 W A green arrow: maximum wattage of 12 W and nominal wattage of 11 W and nominal wattage of 11 W 2. Pedestrian traffic signal module: self- Control Signal Indicators: Control Signal Indicators: LED Signal Indicators: display: maximum wattage of 16 W and nominal contained device that LED Signal Modules, August 4, 2010 A walking person only display: maximum wattage of 16 W and nominal wattage of 12 W and nominal wattage of 12 W and nominal wattage of 13 W A hand only display: maximum wattage of 16 W and nominal wattage of 16 W and nominal wattage of 12 W and nominal wattage of 13 W A hand only display: maximum wattage of 16 W and nominal wattage of 12 W and nominal wattage of 16 W and nominal wattage of 12 W and nominal wattage of 16 W and nominal wattage of 16 W and nominal wattage of 18 W and nominal wattage of 16 W and nominal wattage of 18 W and nominal wattage of 16	module: self-contained device that consists of all of the optical components required for its operation and is designed to provide	Signal Heads: LED Circular Signal Supplement, June 27, 2005	304.8 mm: maximum wattage of 17 W and nominal wattage of 11 W A red light that has a diameter of 203.2 mm: maximum wattage of 13 W and	coming force of	the into the
304.8 mm: maximum wattage of 15 W and nominal wattage of 15 W A green light that has a diameter of 203.2 mm: maximum wattage of 12 W and nominal wattage of 12 W and nominal wattage of 12 W A green arrow: maximum wattage of 11 W and nominal wattage of 11 W and nominal wattage of 11 W Control Signal Indicators: LED Signal Modules, August contained device that components required for its operation and is designed to provide pedestrians with movement information and to fit into a pedestrian signal housing. 7. Torchieres CAN/CSA C867.1-08, Performance of torchieres Without additional sockets: total electrical As of coming into providing indirect lighting and that may be equipped with additional sockets for	information and to fit into a traffic signal		_		
20.3.2 mm: maximum wattage of 12 W and nominal wattage of 12 W and nominal wattage of 12 W A green arrow: maximum wattage of 11 W and nominal wattage of 11 W and nominal wattage of 11 W 2. Pedestrian traffic signal module: self-control Signal Indicators: contained device that consists of all of the optical components required for its operation and is designed to provide pedestrians with movement information and to fit into a pedestrian signal housing. 7. Torchieres 1. Portable luminaire that has a reflector bowl or similar-shaped reflector that directs light in a predominantly upward direction for providing indirect lighting and that may be equipped with additional sockets for			304.8 mm: maximum wattage of 15 W and		
2. Pedestrian traffic signal module: self-control Signal Indicators: display: maximum wattage of 16 W and nominal components required for its operation and is designed to provide pedestrians with movement information and to fit into a pedestrian signal housing. 7. Torchieres 1. Portable luminaire that has a reflector bowl or similar-shaped reflector that directs light in a predominantly upward direction for providing indirect lighting and that may be equipped with additional sockets for			203.2 mm: maximum wattage of 12 W and		
signal module: self-contained device that consists of all of the optical components required for its operation and is designed to provide pedestrians with movement information and to fit into a pedestrian signal housing. 7. Torchieres 1. Portable luminaire that as a reflector bowl or similar-shaped reflector that directs light in a predominantly upward direction for providing indirect lighting and that may be equipped with additional sockets for late of all of the contained device that consists of all of the LED Signal Indicators: display: maximum wattage of 13 W auttage of 12 W and nominal wattage of 9 W A walking person only display: maximum wattage of 16 W and nominal wattage of 13 W A hand only display: maximum wattage of 16 W and nominal wattage of 12 W and nominal wattage of 13 W A hand only display: maximum wattage of 16 W and nominal wattage of 12 W and nominal wattage of 13 W A hand only display: maximum wattage of 16 W and nominal wattage of 12 W and nominal wattage of 16 W and nominal wattage of 12 W and nominal wattage of 16 W and nominal wattage of 16 W and nominal wattage of 12 W and nominal wattage of 16 W and					
required for its operation and is designed to provide pedestrians with movement information and to fit into a pedestrian signal housing. 7. Torchieres 1. Portable luminaire that has a reflector bowl or similar-shaped reflector that directs light in a predominantly upward direction for providing indirect lighting and that may be equipped with additional sockets for	signal module: self- contained device that consists of all of the	Control Signal Indicators: LED Signal Modules, August	display: maximum wattage of 16 W and nominal	coming in force of t	the into the
pedestrians with movement information and to fit into a pedestrian signal housing. 7. Torchieres 1. Portable luminaire that has a reflector bowl or similar-shaped reflector that directs light in a predominantly upward direction for providing indirect lighting and that may be equipped with additional sockets for	required for its operation and is				
1. Portable luminaire that has a reflector bowl or similar-shaped reflector that directs light in a predominantly upward direction for providing indirect lighting and that may be equipped with additional sockets for	pedestrians with movement information and to fit into a pedestrian signal				
that has a reflector bowl or similar-shaped reflector that directs light in a predominantly upward direction for providing indirect lighting and that may be equipped with additional sockets for	7. Torchieres				
light in a predominantly upward direction for providing indirect lighting and that may be equipped with additional sockets for	that has a reflector bowl	-		coming	the into the
	reflector that directs light in a predominantly upward direction for providing indirect lighting and that may be equipped with additional sockets for			Regulation	
Category 4: Household appliances	Category 4: Household	l appliances			

Categories, appliances and scope of application	Energy efficiency standard	Energy performance requirements	Manufacturing period
that has a capacity of 850 L or less, household refrigerator or household refrigerator-freezer, as the case may be, that has a defrost system and a capacity of 1,100 L or less. Refrigerators that have	performance and capacity of household refrigerators, refrigerator-freezers, freezers, and wine chillers The following adjustments must precede the testing of automatic icemakers: (a) the icemaker is on but not in the process of freeing or removing ice pieces; (b) there is no ice in the ice storage bin; (c)the level indicating arm is mechanically fixed in the ice full condition or, if the icemaker does not have a level indicating arm, it may be disabled by another means that only prevents it from freeing or removing ice pieces; (d) all other components are activated in the same manner as when the icemaker is on but not in the process of freeing or removing ice pieces; (e) the ice storage bin is maintained at a temperature	(1): Eannual ≤ 0.282 AV + 225.0 All-refrigerator with manual defrost (1A): Eannual ≤ 0.240 AV + 193.6 Refrigerator-freezer with partial automatic defrost (2): Eannual ≤ 0.282 AV + 225.0 Refrigerator-freezer with automatic defrost and with a top-mounted freezer without through-the-door-ice service and all-refrigerator with automatic defrost (3): Eannual ≤ 0.285 AV + 233.7 Built-in refrigerator-freezer with automatic defrost with a top-mounted freezer without an automatic icemaker (3-BI): Eannual ≤ 0.323 AV + 264.9 Refrigerator-freezer with automatic defrost and with a top-mounted freezer with an automatic icemaker without through-the-door-ice service (3I): Eannual ≤ 0.285 AV + 317.7 Built-in refrigerator-freezer with automatic defrost and with a top-mounted freezer without an automatic icemaker (3I-BI): Eannual ≤ 0.323 AV + 348.9 All-refrigerator with automatic defrost (3A): Eannual ≤ 0.25 AV + 201.6	coming into force of the Regulation

Categories, appliances and scope of application	Energy efficiency standard	Energy performance requirements	Manufacturing period
		door-ice service (5A): Eannual ≤ 0.327 AV + 475.4 Built-in refrigerator-freezer with automatic defrost and with a bottom-mounted freezer, without an automatic icemaker (5-BI):	
		Eannual ≤ 0.332 AV + 336.9 Refrigerator-freezer with automatic defrost and with a bottom-mounted freezer without throughthe-door ice service (5I): Eannual ≤ 0.312 AV + 401.0	
		Built-in refrigerator-freezer with automatic defrost and with a bottom-mounted freezer with an automatic icemaker without through-the-door ice service (5I-BI): Eannual ≤ 0.332 AV + 420.9	
		Built-in refrigerator-freezer with automatic defrost and with a bottom-mounted freezer with throughthe-door-ice service (5A-BI): Eannual ≤ 0.347 AV + 499.9	
		Refrigerator-freezer with automatic defrost and with a top-mounted freezer with through-the-door-ice service (6): Eannual ≤ 0.347 AV + 499.9	
		Refrigerator-freezer with automatic defrost and with a side-mounted freezer with through-the-door-ice service (7): annual ≤ 0.302 AV + 432.8	
		Built-in refrigerator-freezer with automatic defrost and with a side-mounted freezer with throughthe-door-ice service (7-BI): Eannual ≤ 0.362 AV + 502.6	
		Upright freezer with manual defrost (8): Eannual ≤ 0.197 AV + 193.7 Upright freezer with automatic defrost	
		(9): Eannual ≤ 0.305 AV + 228.3 Upright freezer with automatic defrost with an automatic icemaker (9I):	
		Eannual ≤ 0.305 AV + 312.3 Built-in upright freezer with automatic defrost without an automatic icemaker (9-BI): Eannual ≤ 0.348 AV + 260.9	
		Built-in upright freezer with automatic defrost with an automatic icemaker (9I-BI): Eannual ≤ 0.348 AV + 344.9	
		Chest freezer and all other freezers (10): Eannual ≤ 0.257 AV + 107.8 Chest freezer with automatic defrost system	
		(10A): Eannual ≤ 0.362 AV + 148.1 Compact refrigerator and refrigerator-freezer with manual or semi-automatic defrost	
		(11): Eannual ≤ 0.319 AV + 252.3	

Categories, appliances and scope of application	Energy efficiency standard	Energy performance requirements	Manufacturin period
		Compact all-refrigerator with manual defrost (11A): Eannual ≤ 0.277 AV + 219.1	
		Compact refrigerator-freezer with partial automatic defrost (12): Eannual ≤ 0.209 AV + 335.8	
		Compact refrigerator-freezer with automatic defrost and with a top-mounted freezer, and compact all-refrigerator with automatic defrost (13): Eannual ≤ 0.417 AV + 339.2	
		Compact refrigerator-freezer with automatic defrost and with a top-mounted freezer with an automatic icemaker (13I): Eannual ≤ 0.417 AV + 423.2	
		Compact all-refrigerator with automatic defrost (13A): Eannual ≤ 0.324 AV + 259.3	
		Compact refrigerator-freezer with automatic defrost and with a side-mounted freezer (14): Eannual ≤ 0.241 AV + 456.9	
		Compact refrigerator-freezer with automatic defrost and with a side-mounted freezer with an automatic icemaker (14I): Eannual ≤ 0.241 AV + 540.9	
		Compact refrigerator-freezer with automatic defrost and with a bottom-mounted freezer (15): Eannual ≤ 0.417 AV + 339.2	
		Compact refrigerator-freezer with automatic defrost and with a bottom-mounted freezer with an automatic icemaker (15I): Eannual ≤ 0.417 AV + 423.2	
		Compact upright freezer with manual defrost (16): Eannual ≤ 0.306 AV + 225.7	
		Compact upright freezer with automatic defrost (17): Eannual ≤ 0.359 AV + 351.9	
		Compact chest freezer and all other compact freezers (18): Eannual ≤ 0.327 AV + 136.8	
		Wine chiller with manual defrost (19): Eannual ≤ 0.485 AV + 267	
		Wine chiller with automatic defrost (20): Eannual ≤ 0.616 AV + 344	
2. Commercial refriger			
commercial freezer, refrigerator or refrigerator-freezer that	performance standard for commercial refrigeration	doors: Edaily ≤ 0.00353 × Vr + 2.04	
has one or more compartments and that is designed for freezing or storing food,		Self-contained commercial refrigerator with transparent doors without pull-down temperature reduction capability: Edaily $\leq 0.00424 \times Vr + 3.34$	

Categories, appliances and scope of application	Energy efficiency standard	Energy performance requirements	Manufacturing period
beverages or ice and that has a self- contained refrigeration source that requires an energy input.		Self-contained commercial freezer that does not have transparent doors: Edaily ≤ 0.01413 × Vf + 1.38	
		Self-contained commercial freezer with transparent doors: Edaily ≤ 0.02649 × Vf + 4.10	
		Self-contained commercial refrigerator-freezer that does not have transparent doors: Edaily \leq the higher of 0.70 and (0.009534 × adjusted volume (in litres) – 0.71), where the adjusted volume = Vr + 1.63 × Vf	
commercial freezer, refrigerator or commercial	performance standard for	Vertical open, remote condensing unit and designed for storage at medium temperature (VOP.RC.M): Edaily ≤ 8.826 × TDA + 4.07	
refrigerator-freezer that is not equipped with doors and that is designed for freezing or		Vertical open, remote condensing unit and designed for storage at low temperature (VOP.RC.L): Edaily ≤ 24.434 × TDA + 6.85	
storing food, beverages or ice and that has a self-contained refrigeration source that	a at y	Semi-vertical open, remote condensing unit and designed for storage at medium temperature (SVO.RC.M): Edaily ≤ 8.934 × TDA + 3.18	
requires an energy input.		Semi-vertical open, remote condensing unit and designed for storage at low temperature (SVO.RC.L): Edaily ≤ 24.434 × TDA + 6.85	
		Horizontal open, remote condensing unit and designed for storage at medium temperature (HZO.RC.M): Edaily ≤ 3.767 × TDA + 2.88	
		Horizontal open, remote condensing unit and designed for storage at low temperature (HZO.RC.L): Edaily ≤ 6.135 × TDA + 6.88	
		Vertical closed transparent, remote condensing unit and designed for storage at medium temperature (VCT.RC.M): Edaily ≤ 2.368 × TDA + 1.95	
		Vertical closed transparent, remote condensing unit and designed for storage at low temperature (VCT.RC.L): Edaily ≤ 6.028 × TDA + 2.61	
		Horizontal closed transparent, remote condensing unit and designed for storage at medium temperature (HCT.RC.M): Edaily ≤ 1.722 × TDA + 0.13	
		Horizontal closed transparent, remote condensing unit and designed for storage at low temperature (HCT.RC.L): Edaily ≤ 3.66 × TDA + 0.26	
		Vertical closed solid, remote condensing unit and designed for storage at medium temperature (VCS.RC.M): Edaily ≤ 3.885 × (Vf or Vr) + 0.26	
		Vertical closed solid, remote condensing unit and designed for storage at low temperature (VCS.RC.L): Edaily ≤ 8.122 × (Vf or Vr) + 0.54	

Categories, appliances and scope of application	Energy efficiency standard	Energy performance requirements	Manufacturing period
		Horizontal closed solid, remote condensing unit and designed for storage at medium temperature (HCS.RC.M): Edaily ≤ 3.885 × (Vf or Vr) + 0.26	
		Horizontal closed solid, remote condensing unit and designed for storage at low temperature (HCS.RC.L): Edaily ≤ 8.125 × (Vf or Vr) + 0.54	
		Service over counter, remote condensing unit and designed for storage at medium temperature (SOC.RC.M): Edaily ≤ 5.49 × TDA + 0.11	
		Service over counter, remote condensing unit and designed for storage at low temperature (SOC.RC.L): Edaily ≤ 11.625 × TDA + 0.22	
		Vertical open, self-contained and designed for storage at medium temperature (VOP.SC.M): Edaily ≤ 18.729 × TDA + 4.71	
		Vertical open, self-contained and designed for storage at low temperature (VOP.SC.L): Edaily ≤ 47.038 × TDA + 11.82	
		Semi-vertical open, self-contained and designed for storage at medium temperature (SVO.SC.M): Edaily ≤ 18.622 × TDA + 4.59	
		Semi-vertical open, self-contained and designed for storage at low temperature (SVO.SC.L): Edaily ≤ 46.715 × TDA + 11.51	
		Horizontal open, self-contained and designed for storage at medium temperature (HZO.SC.M): Edaily ≤ 8.288 × TDA + 5.55	
		Horizontal open, self-contained and designed for storage at low temperature (HZO.SC.L): Edaily ≤ 20.667 × TDA + 7.08	
		Vertical open, remote condensing unit and designed for the storage of ice cream (VOP.RC.I): Edaily ≤ 31.108 × TDA + 8.7	
		Semi-vertical open, remote condensing unit and designed for the storage of ice cream (SVO.RC.I): Edaily ≤ 31.108 × TDA + 8.7	
		Horizontal open, remote condensing unit and designed for the storage of ice cream (HZO.RC.I): Edaily ≤ 7.75 × TDA + 8.74	
		Vertical closed transparent, remote condensing unit and designed for the storage of ice cream (VCT.RC.I): Edaily ≤ 7.104 × TDA + 3.05	
		Horizontal closed transparent, remote condensing unit and designed for the storage of ice cream (HCT.RC.I): Edaily ≤ 4.306 × TDA + 0.31	
		Vertical closed solid, remote condensing unit and designed for the storage of ice cream (VCS.RC.I): Edaily ≤ 9.535 × (Vf or Vr) + 0.63	

Categories, appliances and scope of application	Energy efficiency standard	Energy performance requirements	Manufactu period	_
		Horizontal closed solid, remote condensing unit and designed for the storage of ice cream (HCS.RC.I): Edaily ≤ 9.535 × (Vf or Vr) + 0.63		
		Service over counter, remote condensing unit and designed for the storage of ice cream (SOC.RC.I): Edaily ≤ 13.562 × TDA + 0.26		
		Vertical open, self-contained and designed for the storage of ice cream (VOP.SC.I): Edaily ≤ 59.74 × TDA + 15.05		
		Semi-vertical open, self-contained and designed for the storage of ice cream (SVO.SC.I): Edaily ≤ 59.417 × TDA + 14.63		
		Horizontal open, self-contained and designed for the storage of ice cream (HZO.SC.I): Edaily ≤ 26.264 × TDA + 9		
		Vertical closed transparent, self-contained and designed for the storage of ice cream (VCT.SC.I): Edaily ≤ 7.212 × TDA + 3.29		
		Horizontal closed transparent, self-contained and designed for the storage of ice cream (HCT.SC.I): Edaily ≤ 6.028 × TDA + 0.43		
		Vertical closed solid, self-contained and designed for the storage of ice cream (VCS.SC.I): Edaily ≤ 13.42 × (Vf or Vr) + 0.88		
		Horizontal closed solid, self-contained and designed for the storage of ice cream (HCS.SC.I): Edaily ≤ 13.42 × (Vf or Vr) + 0.88		
		Service over counter, self-contained and designed for the storage of ice cream (SOC.SC.I): Edaily ≤ 18.944 × TDA + 0.36		
3. Ranges				
1. Natural gas or propane range with an electrical power source.	N/A	Must not be equipped with a continuously burning pilot light	As of coming force of Regulation	the into the
range with at least one surface element and one or more ovens.	Consumption Test Methods for Household Electric Ranges	Eannual ≤ 2.0 × oven volume in litres + 458	As of coming force of Regulation	the into the
	Consumption Test Methods for Household Electric Ranges	Eannual ≤ 258	As of coming force of Regulation	the into the
4. Household built-in or wall-mounted electric range with one or more ovens and no surface element.	Consumption Test Methods for Household Electric	Eannual ≤ 2.0 × oven volume in litres + 200	As of coming force of Regulation	the into the
4. Dehumidifiers	1	•	1	

Categories, appliances and scope of application	Energy efficiency standard	Energy performance requirements	Manufacturing period
_	CAN/CSA C749-15, Energy performance of dehumidifiers	Cr ≤ 16.6: EF ≥ 1.35 L/kWh	As of the coming into
dehumidifier mechanically		Cr > 16.6 and ≤ 21.3: EF ≥ 1.50 L/kWh	force of the Regulation
refrigerated and whose water removal capacity		Cr > 21.3 and ≤ 25.5: EF ≥ 1.60 L/kWh	
is 87.5 L/d or less.		Cr > 25.5 and ≤ 35.5 : EF ≥ 1.70 L/kWh	
		Cr > 35.5: EF ≥ 2.50 L/kWh	
5. Vending machines			
1. Self-contained machine for dispensing, after accepting payment, packages of solid non-refrigerated food and bottled, canned or other sealed refrigerated beverages.			As of the coming into force of the Regulation
6. Clothes washers			
or compact electrically-	performance, water consumption, and capacity of household clothes washers	Compact, capacity of less than 45 L and vertical axis: modified energy performance ≥ 24.35 L/kWh/cycle and integrated water factor ≤ 1.92 L/cycle/L Compact, capacity of less than 45 L and horizontal axis: modified energy performance ≥ 32 L/kWh/cycle and integrated water factor ≤ 1.11 L/cycle/L Standard, capacity of 45 L or more and vertical axis: modified energy performance ≥ 36.53 L/kWh/cycle and integrated water factor ≤ 1.12 L/cycle/L Standard, capacity of 45 L or more and horizontal axis: modified energy	coming into force of the Regulation to 31 December
	CAN/CSA C360-13, Energy performance, water consumption, and capacity of household clothes washers	,	2018

Categories, appliances and scope of application	Energy efficiency standard	Energy performance requirements	Manufacturing period
clothes washer designed for use by	consumption, and capacity of household clothes washers	performance ≥ 45.31 L/kWh/cycle and water	From the coming into force of the Regulation to 31 December 2017
families, in coinoperated laundromats, hotels, or any other commercial use), top or front-loaded, that has an internal control system that regulates the water temperature without the need for user intervention after the initiation of machine operation and that does not require fastening to a floor or wall.	CAN/CSA C360-13, Energy performance, water consumption, and capacity of household clothes washers		As of 1 January 2018
7. Integrated clothes w	asher-dryers		
washer-dryer, combination or not,	CAN/CSA C360-13, Energy performance, water consumption, and capacity of household clothes washers	For the washer function, refer to the energy performance requirements applicable to washers	From the coming into force of the Regulation to 31 December 2017 As of 1 January 2018
	,	For the dryer function, refer to the energy performance requirements applicable to dryers	As of 1 January 2019
8. Dishwashers			
Electrically-operated automatic standard or compact household dishwasher.		Compact: energy consumption ≤ 222 kWh/year and water consumption ≤ 13.25 L/cycle Standard: energy consumption ≤ 307 kWh/year and water consumption ≤ 18.93 L/cycle	As of the coming into force of the Regulation
9. Icemakers	ı	ı	
Automatic icemaker that may produce in batches.	CAN/CSA C742-15, Energy performance of automatic icemakers and ice storage bins	consumption (kJ/kg) ≤ 546.04 – 0.962 × Hm	As of 28 January 2018

Categories, appliances and scope of application	Energy efficiency standard	Energy performance requirements	Manufacturing period
		Water-cooled and Hm ≥ 680 kg/d and < 1,134 kg/d: energy consumption (kJ/kg) ≤ 317.47	
		Water-cooled and Hm ≥ 1,134 kg/d and < 1,814 kg/d: energy consumption (kJ/kg) ≤ 317.47	
		Air-cooled and Hm < 136 kg/d: energy consumption (kJ/kg) ≤ 793.66 – 2.157 × Hm	
		Air-cooled and $Hm \ge 136 \text{ kg/d}$ and $< 363 \text{ kg/d}$: energy consumption (kJ/kg) $\le 559.53 - 0.437 \times Hm$	
		Air-cooled and Hm ≥ 363 kg/d and < 680 kg/d: energy consumption (kJ/kg) ≤ 440.48 – 0.110 × Hm	
		Air-cooled and Hm ≥ 680 kg/d and < 1,814 kg/d: energy consumption (kJ/kg) ≤ 365.88	
		Remote condensing unit and integrated compressor, air-cooled and Hm ≥ 23 kg/d and < 454 kg/d: energy consumption (kJ/kg) ≤ 632.55 – 0.598 × Hm	
		Remote condensing unit and integrated compressor, air-cooled and $Hm \ge 454 \text{ kg/d}$ and $< 1,814 \text{ kg/d}$: energy consumption $(kJ/kg) \le 361.12$	
		Remote condensing unit and remote compressor, air-cooled and $Hm < 427 \text{ kg/d}$: energy consumption $(kJ/kg) \le 632.55 - 0.598 \times Hm$	
		Remote condensing unit and remote compressor, air-cooled and $Hm \ge 427 \text{ kg/d}$ and $< 1,814 \text{ kg/d}$: energy consumption $(kJ/kg) \le 376.99$	
		Packaged, water-cooled and Hm < 91 kg/d: energy consumption (kJ/kg) ≤ 753.98 – 3.324 × Hm	
		Packaged, water-cooled and Hm ≥ 91 kg/d and < 1,134 kg/d: energy consumption (kJ/kg) ≤ 452.39	
		Packaged, water-cooled and Hm ≥ 1,134 kg/d and < 1,814 kg/d: energy consumption (kJ/kg) ≤ 452.39 Packaged, air-cooled and Hm < 50 kg/d: energy	
		consumption (kJ/kg) ≤ 1173.83 – 8.206 × Hm Packaged, air-cooled and Hm ≥ 50 kg/d	
		and < 91 kg/d: energy consumption (kJ/kg) ≤ 985.73 – 4.432 × Hm	
		Packaged, air-cooled and Hm ≥ 91 kg/d and < 1,814 kg/d: energy consumption (kJ/kg) ≤ 583.34	

Categories, appliances and scope of application	Energy efficiency standard	Energy performance requirements	Manufacturing period
	performance of automatic	consumption (kJ/kg) ≤ 514.29 – 0.467 × Hm	As of 28 January 2018
continuous process.	icemakers and ice storage bins	Water-cooled and $Hm \ge 363 \text{ kg/d}$ and < 1,134 kg/d: energy consumption (kJ/kg) ≤ 344.45	
		Water-cooled and $Hm \ge 1,134 \text{ kg/d}$ and < 1,814 kg/d: energy consumption (kJ/kg) ≤ 344.45	
		Air-cooled and Hm < 141 kg/d: energy consumption (kJ/kg) ≤ 729.38 – 1.101 × Hm	
		Air-cooled and $Hm \ge 141 \text{ kg/d}$ and $< 372 \text{ kg/d}$: energy consumption $(kJ/kg) \le 653.19 - 0.560 \times Hm$	
		Air-cooled and $Hm \ge 372 \text{ kg/d}$ and < 1,814 kg/d: energy consumption (kJ/kg) ≤ 445.25	
		Remote condensing unit and integrated compressor, air-cooled and Hm < 363 kg/d and < 454 kg/d: energy consumption (kJ/kg) $\leq 769.85 - 1.015 \times Hm$	
		Remote condensing unit and integrated compressor, air-cooled and Hm ≥ 363 kg/d and < 1,814 kg/d: energy consumption (kJ/kg) ≤ 401.59	
		Remote condensing unit and remote compressor, air-cooled and Hm < 363 kg/d : energy consumption (kJ/kg) $\leq 785.73 - 1.015 \times \text{Hm}$	
		Remote condensing unit and remote compressor, air-cooled and Hm ≥ 363 kg/d and < 1,814 kg/d: energy consumption (kJ/kg) ≤ 417.47	
		Self-contained, water-cooled and Hm < 408 kg/d: energy consumption $(kJ/kg) \le 603.18 - 0.528 \times Hm$	
		Self-contained, water-cooled and Hm ≥ 408 kg/d and < 1,134 kg/d: energy consumption (kJ/kg) ≤ 387.31	
		Self-contained, water-cooled and Hm ≥ 1,134 kg/d and < 1,814 kg/d: energy consumption (kJ/kg) ≤ 387.31	
		Self-contained, air-cooled and $Hm < 91 \text{ kg/d: energy}$ consumption $(kJ/kg) \le 1,128,59 - 5.249 \times Hm$	
		Self-contained, air-cooled and $Hm \ge 91 \text{ kg/d}$ and < 318 kg/d: energy consumption (kJ/kg) $\le 751.6 - 1.092 \times Hm$	
		Self-contained, air-cooled and $Hm \ge 318 \text{ kg/d}$ and < 1,814 kg/d: energy consumption (kJ/kg) ≤ 404.77	

Categories, appliances and scope of application	Energy efficiency standard	Energy performance requirements	Manufacturing period	
3. Ice storage bin. 10. Clothes dryers 1. Electrically-operated		Ice storage bin capacity ≥ 70 kg and < 100 kg: storage effectiveness ≥ 70% Ice storage bin capacity ≥ 100 kg and ≤ 200 kg: storage effectiveness ≥ 75% Ice storage bin capacity > 200 kg: storage effectiveness ≥ 80% Conventional standard: combined energy factor	January 2018 As of 1 January	
household tumble-type clothes dryer, designed	volume of electrically operated household tumble-type clothes dryers		2019	
Category 5: Electronic 1. Video products	devices			
an integral power supply, is connected to a mains power source	Household electrical appliances – Measurement of standby power Video products must be tested at 115 V regardless of their nominal voltage	Capable of entering in one of the following modes, or more if applicable: - a standby mode with display active and a power consumption ≤ 1 W; - a standby mode with display inactive and a power consumption ≤ 0.5 W; - a standby mode without display and power consumption ≤ 0.5 W; - an off mode with a power consumption ≤ 0.5 W.	As of the coming into force of the Regulation	
2. External power supp	olies			
that is designed to convert line voltage ac	method for calculating the energy efficiency of single- voltage external ac-dc and ac- ac power supplies	Minimum average efficiency at the highest or lowest nominal output power setting: - nominal output power ≤ 1 W: 0.5 × nominal output power; - nominal output power ≥ 1 W and ≤ 51 W: 0.09 × In (nominal output power) + 0.5; - nominal output power > 51 W: 0.85; - for a device other than a security external power supply: no load power ≤ 0.5 W.	As of 1 January 2019	

application load, is encased in an enclosure separated from that end-use product and is connected to that product by an electrical connection and has a nominal power of 250 W or less. Any device: (a) that powers the charger of a detachable battery				
enclosure separated from that end-use product and is connected to that product by an electrical connection and has a nominal power of 250 W or less. Any device: (a) that powers the charger of a detachable battery				
from that end-use product and is connected to that product by an electrical connection and has a nominal power of 250 W or less. Any device: (a) that powers the charger of a detachable battery				
product and is connected to that product by an electrical connection and has a nominal power of 250 W or less. Any device: (a) that powers the charger of a detachable battery				
connected to that product by an electrical connection and has a nominal power of 250 W or less. Any device: (a) that powers the charger of a detachable battery				
product by an electrical connection and has a nominal power of 250 W or less. Any device: (a) that powers the charger of a detachable battery				
connection and has a nominal power of 250 W or less. Any device: (a) that powers the charger of a detachable battery				
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250 W or less. Any device: (a) that powers the charger of a detachable battery				
250 W or less. Any device: (a) that powers the charger of a detachable battery				
powers the charger of a detachable battery				
powers the charger of a detachable battery				
detachable battery				
, i				
pack of an end-use				
product, (b) that				
charges the battery of				
an end-use product that				
-				
is fully or primarily				
motor-operated, (c) that				
is an accessory to a				
medical device within				
the meaning of section				
1 of the Medical				
Devices Regulations				
(DORS/98-282),				
(d) that is a power				
sourcing equipment				
within the meaning of				
IEEE standard				
IEEE 802.3 – 2008,				
Standard for				
Information Technology				
— Telecommunications				
and Information				
Exchange Between				
Systems - Specific				
= -				
requirements Part 3, is excluded.				
excluded.				
3. Compact audio prod	ucts			
1. Product consisting of	CAN/CSA C62301:11.	With display active: consumption in a standby	As of	the
		mode ≤ 1 W and consumption in an off		into
	appliances - Measurement of	·	force of	the
	standby power.		Regulation	
		With display inactive: consumption in a standby	riogalation	
	be tested at 115 V regardless			
including a product that	of their nominal voltage.	mode ≤ 0.5 W and consumption in an on-		
can produce sound	of their norminal voltage.			
from another media that		With a display a second to a second to a		
uses mains power as at		Without display: consumption in a standby		
least one means of		mode ≤ 0.5 W and consumption in an off		
power. Clock radios are		mode ≤ 0.5 W		
excluded.				
	CAN/CSA C62301:11,	With display active: consumption in a standby		the
		mode ≤ 2 W and consumption in an off	•	into
	appliances - Measurement of	mode ≤ 1 W	force of	the
	standby power		Regulation	
	Clock radios must be tested at			
	115 V regardless of their			
	nominal voltage.			

Categories, appliances and scope of application	Energy efficiency standard	Energy performance requirements	Manufacturing period
device designed primarily for the display and reception of a terrestrial, satellite, cable, Internet Protocol TV (IPTV) or other broadcast or recorded transmission of analog or digital video and	mode and a standby mode: CAN/CSA C62301:11, Household electrical appliances – Measurement of standby power For a consumption in an on mode and the power factor: CAN/CSA C382-11,	 and a power consumption ≤ 1 W; in a standby mode with display inactive and a power consumption ≤ 0.5 W; in a standby mode without display with a power consumption ≤ 0.5 W; in an off mode with a power 	As of 1 January 2019
household television		Consumption in an on mode \leq 0.019 W/cm ² x A + 25 W where A is the screen surface in cm ² and	As of 1 January 2019
internal tuner, receiver or playback device, (b) a combination television, namely a		Must automatically enter in a standby mode after a maximum of 15 minutes without audio or video signal in the input mode selected and	
system in which a television and an additional device or devices, including a DVD player or VCR are combined into a single unit in which the additional devices are included in the		When turned off by remote control or by a key or an integrated switch, must enter in the operating mode in which the television is connected to the power supply but produces no sound or image, does not exchange data, does not receive data from an internal source and may be switched into another mode with the remote control or an internal signal.	,
television casing, (c) a component television, namely a television composed of two or		For models whose power is < 100 W: power factor ≥ 0.4	As of 1 January 2019
more separate components marketed and sold as a television under one model or system designation. A computer monitor, namely an analog or digital device designed primarily for the display of computer generated signals and that is not marketed for use as a television is excluded.		For models whose power is ≥ 100 W: power factor ≥ 0.9	As of 1 January 2019
Category 6: Electric mo			
converts electrical power into rotational mechanical power,	methods, marking requirements, and energy efficiency levels for three-	See Part 2 of this Schedule	As of the coming into force of the Regulation

electric three-phase induction design, a cage or squirrel-cage

			T
Categories, appliances and scope of application	Energy efficiency standard	Energy performance requirements	Manufacturing period
design, a NEMA design			
A, B or C with NEMA T			
or U frame dimensions			
or IEC design N or H, is			
designed to operate at			
a single speed, has a			
nominal output power of			
not less than 0.746 kW			
(1 HP), and not more			
than 375 kW (500 HP),			
has a nominal voltage			
of not more than			
600 volts AC and a			
nominal frequency of			
50/60 Hz or 60 Hz, a			
two, four, six or eight			
pole construction, and			
has an IP code from 00			
to 67 and is of open or			
enclosed construction.			
Air-over, liquid-cooled,			
inverter-only, NEMA			
design C motors of			
more than 150 kW			
(200 HP) and IEC			
design H motors of			
more than 150 kW			
(200 HP) are excluded.			
Category 7: Dry-type tr	ransformers		
1. Single-phase or	CAN/CSA C802.2-12,	See Part 3 of this Schedule	As of the
three-phrase	Minimum efficiency values for		coming into
transformer, self-	dry-type transformers		force of the
contained or part of a			Regulation
larger assembly, 60 Hz,			
natural cooling, with a			
nominal power of 15 to			
833 kVA for single-			
phase models and 15 to			
7,500 kVA for three-			
phase models.			

Category 6: Electric motors

Energy efficiency standard: CAN/CSA C390-10, Test methods, marking requirements, and energy efficiency levels for three-phase induction motors

	Energy efficiency requirements for 60 Hz (percentage) motors for fire pumps						
Po	wer		Open			Enclosed	
(HP)	(kW)	2 poles	4 poles	6 poles	2 poles	4 poles	6 poles
1	0.75	77	85.5	82.5	77	85.5	82.5
1.5	1.1	84	86.5	86.5	84	86.5	87.5
2	1.5	85.5	86.5	87.5	85.5	86.5	88.5
3	2.2	85.5	89.5	88.5	86.5	89.5	89.5
5	3.7	86.5	89.5	89.5	88.5	89.5	89.5
7.5	5.5	88.5	91	90.2	89.5	91.7	91
10	7.5	89.5	91.7	91.7	90.2	91.7	91
15	11	90.2	93	91.7	91	92.4	91.7
20	15	91	93	92.4	91	93	91.7
25	19	91.7	93.6	93	91.7	93.6	93
30	22	91.7	94.1	93.6	91.7	93.6	93
40	30	92.4	94.1	94.1	92.4	94.1	94.1
50	37	93	94.5	94.1	93	94.5	94.1
60	45	93.6	95	94.5	93.6	95	94.5
75	55	93.6	95	94.5	93.6	95.4	94.5
100	75	93.6	95.4	95	94.1	95.4	95
125	90	94.1	95.4	95	95	95.4	95
150	110	94.1	95.8	95.4	95	95.8	95.8
200	150	95	95.8	95.4	95.4	96.2	95.8
250	185	95	95.8	95.4	95.8	96.2	95.8
300	225	95.4	95.8	95.4	95.8	96.2	95.8
350	260	95.4	95.8	95.4	95.8	96.2	95.8
400	300	95.8	95.8	95.8	95.8	96.2	95.8
450	340	95.8	96.2	96.2	95.8	96.2	95.8
500	375	95.8	96.2	96.2	95.8	96.2	95.8

Categorie 6: Electric motors

Energy efficiency standard: CAN/CSA C390-10, Test methods, marking requirements, and energy efficiency levels for three-phase induction motors

three-ph	three-phase induction motors								
	Energy efficiency requirements for all other 60 Hz (percentage) motors								
Po	Power		Open			Enclosed			
(HP)	(kW)	2 poles	4 poles	6 poles	8 poles	2 poles	4 poles	6 poles	8 poles
1	0.75	77	85.5	82.5	75.5	77	85.5	82.5	75.5
1.5	1.1	84	86.5	86.5	77.0	84	86.5	87.5	78.5
2	1.5	85.5	86.5	87.5	86.5	85.5	86.5	88.5	84.0
3	2.2	85.5	89.5	88.5	87.5	86.5	89.5	89.5	85.5
5	3.7	86.5	89.5	89.5	88.5	88.5	89.5	89.5	86.5
7.5	5.5	88.5	91	90.2	89.5	89.5	91.7	91	86.5
10	7.5	89.5	91.7	91.7	90.2	90.2	91.7	91	89.5
15	11	90.2	93	91.7	90.2	91	92.4	91.7	89.5
20	15	91	93	92.4	91.0	91	93	91.7	90.2
25	19	91.7	93.6	93	91.0	91.7	93.6	93	90.2
30	22	91.7	94.1	93.6	91.7	91.7	93.6	93	91.7
40	30	92.4	94.1	94.1	91.7	92.4	94.1	94.1	91.7
50	37	93	94.5	94.1	92.4	93	94.5	94.1	92.4
60	45	93.6	95	94.5	93.0	93.6	95	94.5	92.4
75	55	93.6	95	94.5	94.1	93.6	95.4	94.5	93.6
100	75	93.6	95.4	95	94.1	94.1	95.4	95	93.6
125	90	94.1	95.4	95	94.1	95	95.4	95	94.1
150	110	94.1	95.8	95.4	94.1	95	95.8	95.8	94.1
200	150	95	95.8	95.4	94.1	95.4	96.2	95.8	94.5
250	185	95	95.8	95.8	95.0	95.8	96.2	95.8	95.0
300	225	95.4	95.8	95.8	-	95.8	96.2	95.8	_
350	260	95.4	95.8	95.8	-	95.8	96.2	95.8	-
400	300	95.8	95.8	-	-	95.8	96.2	-	-
450	340	96.2	96.2	-	-	95.8	96.2	-	-
500	375	96.2	96.2	-	-	95.8	96.2	-	-

Category 7: Tr	ransformers			
	ncy standard: CAN/CSA C802.2-12, Minimum	efficiency values for o	dry-type transforme	rs
	Energy efficiency requirements for	or single-phase tran	sformers	
Power	mance in %, nomina	al power		
	per unit of 0.35		per unit of 0.5	
(kVA)	Class = 1.2 kV		Class > 1.2 kV	
		20 - 45 kV	> 45 - 95 kV	> 95 - 199 kV
15	97.7	98.1	97.86	97.6
25	98	98.33	98.12	97.9
37.5	98.2	98.49	98.3	98.1
50	98.3	98.6	98.42	98.2
75	98.5	98.73	98.57	98.53
100	98.6	98.82	98.67	98.63
167	98.7	98.96	98.83	98.8
250	98.8	99.07	98.95	98.91
333	98.9	99.14	99.03	98.99
500	-	99.22	99.12	99.09
667	-	99.27	99.18	99.15
833	<u>-</u>	99.31	99.23	99.2

Category 7: Tr	ransformers					
Energy efficie	ency standard: CAN/CSA C802.2-12, Minimum	efficiency values for o	dry-type transforme	ers		
<u> </u>	Energy efficiency requirements f					
Power	Performance in %, nominal power	Performance in %, nominal power				
	per unit of 0.35		per unit of 0.5	•		
(kVA)	Class = 1.2 kV		Class > 1.2 kV			
		20 - 45 kV	> 45 - 95 kV	> 95 - 199 kV		
15	97	97.5	97.18	96.8		
30	97.5	97.9	97.63	97.3		
45	97.7	98.1	97.86	97.6		
75	98	98.33	98.12	97.9		
112.5	98.2	98.49	98.3	98.1		
150	98.3	98.6	98.42	98.2		
225	98.5	98.73	98.57	98.53		
300	98.6	98.82	98.67	98.63		
500	98.7	98.96	98.83	98.8		
750	98.8	99.07	98.95	98.91		
1,000	98.9	99.14	99.03	98.99		
1,500	-	99.22	99.12	99.09		
2,000	-	99.27	99.18	99.15		
2,500	-	99.31	99.23	99.2		
3,000	-	99.34	99.26	99.24		
3,750	-	99.38	99.3	99.28		
5,000	-	99.42	99.35	99.33		
7.500	<u>-</u>	99.48	99.41	99.39		