International Standard

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION MEX DY HAPODHAR OPPAHUSALUR TO CTAHDAPTUSALUU ORGANISATION INTERNATIONALE DE NORMALISATION

Air distribution — Straight circular sheet metal ducts with a lock type spiral seam and straight rectangular sheet metal ducts — Dimensions

Distribution d'air — Conduits droits circulaires en tôle d'acier agrafée en hélice et conduits droits rectangulaires en tôle d'acier — Dimensions

First edition - 1983-07-15

(standards.iteh.ai)

ISO 7807:1983 https://standards.iteh.ai/catalog/standards/sist/595a6bc3-2bb3-4abe-92c1-5d0080e44fba/iso-7807-1983

Descriptors : air distribution, air conditioning, ventilation, heating, aeraulic pipes, dimensions.

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of developing International Standards is carried out through ISO technical committees. Every member body interested in a subject for which a technical committee has been authorized has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council.

International Standard ISO 7807 was developed by Technical Committee ISO/TC 144, Air distribution and air diffusion, and was circulated to the member bodies in May 1982.

It has been approved by the member bodies of the following countries: 1983

https://standards.iteh.ai/catalog/standards/sist/595a6bc3-2bb3-4abe-92c1-

Australia Austria Egypt, Arab Rep. of France Germany, F.R. Ireland Poland Romania 500080 44 fba/ion 7807-1983 South Africa, Rep. of Sweden Switzerland United Kingdom

The member bodies of the following countries expressed disapproval of the document on technical grounds:

Belgium Czechoslovakia

© International Organization for Standardization, 1983 •

Air distribution — Straight circular sheet metal ducts with a lock type spiral seam and straight rectangular sheet metal ducts — Dimensions

iTeh STANDARD PREVIEW (standards.iteh.ai)

1 Scope

ISO 7807:1983

This International Standard specifies dimensional characteristics of straight elements of circular and rectangular ducts. 5d0080e44fba/iso-7807-1983

2 Field of application

This international Standard applies to air ducts used in heating, ventilating and air conditioning.

3 Definition

For the purpose of this International Standard, the following definition applies.

nominal dimensions: The internal dimensions of the duct.

4 Circular ducts

See tables 1 and 2.

5 Rectangular ducts

See table 3.

Internal diameter and tolerances ¹⁾] Г	Internal diameter and tolerances 1)
mm		mm
63 ^{+0,5} ₀		71 ^{+0,5} 0
80 ^{+ 0,5} ₀		90 ^{+ 0,5} 0
100 ^{+0,5} 0		112 ^{+0,5} 0
125 ^{+0,5} 0		140 ^{+0,6}
160 + 0,6 0		180 ^{+0,7} ₀
200 ^{+0,7} ₀		224 ^{+0,8}
250 ^{+0,8} 0		280 ^{+0,9} 0
315 ^{+0,9} 0		355 ⁺¹ ₀
400 ⁺¹ ₀		450 ^{+1,1} 0
500 ^{+1,1} 0		560 ^{+1,2}
^{630 + 1,2} iTeh ST	ANDARD	$\mathbf{PREVIE} \bigvee_{10}^{+1,6}$
800 ^{+1,6} 0 (St	andards.it	-
1 000 +2 0	ISO 7807:1983	1 120 ^{+2,5} 0
1 250 +2,5 0https://standards.iteh.ai	catalog/standards/sist/5 d0080e44fba/iso-7807	

Table 2 – Additional sizes for circular ducts

Table 1 — Recommended sizes for circular ducts (R 10 series)

Any diameters of more than 1 250 which may be necessary shall be selected from series R 20.

Long side 0 _4	Short side _0										
	100	150	200	250	300	400	500	600	800	1 000	1 200
150	X	X									
200	X	Х	Х						. <u></u>		
250	X	х	х	X							
300	X	х	х	x	x						· · · · · · · · · · · · · · · · · · ·
400	X	х	х	х	x	x		······			
500		х	х	х	х	х	х		······		
600		Х	Х	х	х	х	Х	X	·····	·····	
800			х	х	х	х	х	х	x		
1 000		_		х	Х	х	x	х	Х	Х	
1 200					х	X	х	х	х	Х	Х
1 400						х	х	х	Х	Х	×X
1 600						х	х	Х	Х	Х	Х
1 800							х	Х	Х	Х	Х
2 000							X	х	Х	Х	Х

1) The tolerance indicated is a tolerance on the mean internal diameter.