

## ParaFlow

### Low Temp. Generator Tubes all models "S" and "G" series machines

Chiller Model	Tube Length (in)	Tube nom. O.D.	Tube Wall nom. thk.	Tube Qty.	Tube Enhancements							
					Standard		A		B		C	
					Part no.	Type	Part no.	Type	Part No.	Type	Part no.	Type
<b>"S" Series Machines</b>												
12SC & 13S	126-1/8	5/8"	.025"	313	08446	Bare	-	-	-	-	-	-
13SC & 14S	126-1/8	5/8"	.025"	313	08446	Bare	-	-	-	-	-	-
14SC & 15S	157-5/8	5/8"	.025"	313	08426	Bare	-	-	-	-	-	-
15SL	157-5/8	3/4"	.028"	300	08449	Bare	-	<b>NO SPECIAL TUBE OPTIONS AVAILABLE</b>				-
16S	157-5/8	3/4"	.028"	333	08449	Bare	-					-
16SL	197	3/4"	.028"	300	08474	Bare	-					-
17S	197	3/4"	.028"	333	08474	Bare	-	-	-	-	-	-
18S	236-3/8	3/4"	.028"	333	08428	Bare	-	-	-	-	-	-
19S	275-3/4	3/4"	.028"	333	08479	Bare	-	-	-	-	-	-
<b>"G" Series Machines</b>												
15GL(2)	157-5/8	5/8"	.025"	347	08426	Bare	-	-	-	-	-	-
16G(2)	157-5/8	5/8"	.025"	347	08426	Bare	-	-	-	-	-	-
16GL	197-1/8	5/8"	.025"	347	08427	Bare	-	-	-	-	-	-
17G(2)	197-1/8	5/8"	.025"	347	08427	Bare	-	-	-	-	-	-
18G(2)	236-3/8	5/8"	.025"	390	08432	Bare	-	<b>NO SPECIAL TUBE OPTIONS AVAILABLE</b>				-
19G(2)	271-7/8	5/8"	.025"	390	08433	Bare	-					-
19GL	315-1/8	5/8"	.025"	390	08424	Bare	-					-
20G	315-1/8	5/8"	.025"	539	08424	Bare	-	-	-	-	-	-
21G	315-1/8	5/8"	.025"	620	08424	Bare	-	-	-	-	-	-
22G	315-1/8	5/8"	.025"	882	08424	Bare	-	-	-	-	-	-
22GL	315-1/8	5/8"	.025"	882	08424	Bare	-	-	-	-	-	-

<b>TUBE DIMENSIONS AND TOLERANCES FOR ROLLING</b>												
Tube Type	Tube nom. O.D.	Bare Tubes		Tube nom. Wall	Plain Sections			Finned Sections			MTI #	R spec
		Wall Tol.	O.D. Tolerance		End O.D.	Skip O.D.	Wall Tol.	O.D. Min.	Root Dia.	Min. Wall		
Bare	5/8"	+/- .003	+/- .004	.025"	-	-	-	-	-	-	-	658
Bare	3/4"	+/- .003	+/- .006	.028"	-	-	-	-	-	-	-	658

**Notes:**

- 1) All dimensions in inches.
- 2) All tube material C-122 copper.
- 3) All YORK tube part numbers have a 007 prefix and a 000 suffix. example: 007-XXXXX-000
- 4) Add 1/2" to the tube length column if unit has 1" thick endsheets.
- 5) Units built prior to April 1994 have 90/10 CuNi tubes.

*High Temp Generation  
70/30 copper nickel .035 wall  
120 tubes*

## ParaFlow Condenser Tubes all models "S" and "G" series machines

Chiller Model	Tube Length (in)	Tube nom. O.D.	Tube Wall nom. thk.	Tube Qty.	Tube Enhancements							
					Standard		A		B		C	
					Part no.	Type	Part no.	Type	Part No.	Type	Part no.	Type
<b>"S" Series Machines</b>												
12SC & 13S	126-1/8	5/8"	.025"	140	08446	Bare	-	-	-	-	-	-
13SC & 14S	126-1/8	5/8"	.025"	140	08446	Bare	-	-	-	-	-	-
14SC & 15S	157-5/8	5/8"	.025"	140	08426	Bare	-	-	-	-	-	-
15SL	157-5/8	3/4"	.028"	160	08449	Bare	-	<b>NO SPECIAL TUBE OPTIONS AVAILABLE</b>				-
16S	157-5/8	3/4"	.028"	160	08449	Bare	-					-
16SL	197	3/4"	.028"	160	08474	Bare	-					-
17S	197	3/4"	.028"	160	08474	Bare	-	-	-	-	-	-
18S	236-3/8	3/4"	.028"	160	08428	Bare	-	-	-	-	-	-
19S	275-3/4	3/4"	.028"	160	08479	Bare	-	-	-	-	-	-
<b>"G" Series Machines</b>												
15GL(2)	157-5/8	5/8"	.025"	190	08426	Bare	-	-	-	-	-	-
16G	157-5/8	5/8"	.025"	190	08426	Bare	-	-	-	-	-	-
16GL	197-1/8	5/8"	.025"	190	08427	Bare	-	-	-	-	-	-
17G(2)	197-1/8	5/8"	.025"	190	08427	Bare	-	-	-	-	-	-
18G(2)	236-3/8	3/4"	.028"	152	08428	Bare	-	<b>NO SPECIAL TUBE OPTIONS AVAILABLE</b>				-
19G(2)	271-7/8	3/4"	.028"	152	08429	Bare	-					-
19GL	315-1/8	3/4"	.028"	152	08423	Bare	-					-
20G	315-1/8	3/4"	.028"	215	08423	Bare	-	-	-	-	-	-
21G	315-1/8	3/4"	.028"	252	08423	Bare	-	-	-	-	-	-
22G	315-1/8	3/4"	.028"	404	08423	Bare	-	-	-	-	-	-
22GL	315-1/8	3/4"	.028"	404	08423	Bare	-	-	-	-	-	-

<b>TUBE DIMENSIONS AND TOLERANCES FOR ROLLING</b>													
Tube Type	Tube nom. O.D.	Bare Tubes			Tube nom. Wall	Plain Sections			Finned Sections			MTI #	R spec
		Wall Tol.	O.D. Tolerance			End O.D.	Skip O.D.	Wall Tol.	O.D. Min.	Root Dia.	Min. Wall		
Bare	5/8	+ / - .003	+ / - .004	.025"	-	-	-	-	-	-	-	-	658
Bare	3/4	+ / - .003	+ / - .006	.028"	-	-	-	-	-	-	-	-	658

**Notes:**

- 1) All dimensions in inches.
- 2) All tube material C-122 copper.
- 3) All YORK tube part numbers have a 007 prefix and a 000 suffix. example: 007-XXXXX-000
- 4) Add 1/2" to the tube length column if unit has 1" thick endsheets.

## ParaFlow Evaporator Tubes all models "S" and "G" series machines

Chiller Model	Tube Length (in)	Tube nom. O.D.	Tube Wall nom. thk.	Tube Qty.	Tube Enhancements							
					Standard		A		B		C	
					Part no.	Type	Part no.	Type	Part No.	Type	Part no.	Type
<b>"S" Series Machines</b>												
12SC & 13S	126-1/8	5/8"	.025"	486	08445	40 fpi <sup>3</sup>	-	-	-	-	-	-
13SC & 14S	126-1/8	5/8"	.025"	486	08445	40 fpi <sup>3</sup>	-	-	-	-	-	-
14SC & 15S	157-5/8	5/8"	.025"	486	07899	40 fpi <sup>3</sup>	-	-	-	-	-	-
15SL	157-5/8	3/4"	.028"	366	08448	19 fpi	-	-	-	-	-	-
16S	157-5/8	3/4"	.028"	408	08448	19 fpi	-	-	-	-	-	-
16SL	197	3/4"	.028"	366	08472	19 fpi	-	-	-	-	-	-
17S	197	3/4"	.028"	408	08472	19 fpi	-	-	-	-	-	-
18S	236-3/8	3/4"	.028"	408	08473	19 fpi	-	-	-	-	-	-
19S	275-3/4	3/4"	.028"	408	08478	19 fpi	-	-	-	-	-	-
<b>"G" Series Machines</b>												
15GL(2)	157-5/8	5/8"	.025"	720	08077	19 fpi	08077	19 fpi	07899	40 fpi	07899	40 fpi
16G	157-5/8	5/8"	.025"	720	08077	19 fpi	07899	40 fpi	07899	40 fpi	07899	40 fpi
16GL	197-1/8	5/8"	.025"	720	08079	19 fpi	08079	19 fpi	08011	40 fpi	08011	40 fpi
17G (2)	197-1/8	5/8"	.025"	720	08079	19 fpi	08011	40 fpi	08011	40 fpi	08011	40 fpi
18G(2)	236-3/8	5/8"	.025"	720	08080	19 fpi	08012	40 fpi	08012	40 fpi	08012	40 fpi
19G(2)	271-7/8	5/8"	.025"	720	08081	19 fpi	08013	40 fpi	08013	40 fpi	08013	40 fpi
19GL	315-1/8	5/8"	.025"	790	08078	19 fpi	08078	19 fpi	08014	40 fpi	08014	40 fpi
20G	315-1/8	5/8"	.025"	1007	08078	19 fpi	08078	19 fpi	08014	40 fpi	08014	40 fpi
21G	315-1/8	5/8"	.025"	1234	08078	19 fpi	08078	19 fpi	08014	40 fpi	08014	40 fpi
22G	315-1/8	5/8"	.025"	1404	08078	19 fpi	08078	19 fpi	08014	40 fpi	08014	40 fpi
22GL	315-1/8	5/8"	.025"	1404	08078	19 fpi	08078	19 fpi	08014	40 fpi	08014	40 fpi

<b>TUBE DIMENSIONS AND TOLERANCES FOR ROLLING</b>												
Tube Type	Tube nom. O.D.	Bare Tubes			Plain Sections			Finned Sections			MTI #	R spec.
		Wall Tol.	O.D. Tolerance	Tube nom. Wall	End O.D.	Skip O.D.	Wall Tol.	O.D. Min.	Root Dia.	Min. Wall		
Bare <sup>3</sup>	5/8	+ / - .003	+ / - .004	.025"	-	-	-	-	-	-	-	658
19 fpi	5/8	-	-	.025"	.619/.629	.619/.626	.039/.047	.609	.523	.022	503	657
40 fpi	5/8	-	-	.025"	.6225/.6275	.620/.626	.044/.051	.612	.500	.022	513	657
19 fpi	3/4	-	-	.028"	.747/.753	.740/.746	.043/.051	.739	.657	.025	250	657

**Notes:**

- 1) All dimensions in inches.
- 2) All YORK tube part numbers have a 007 prefix and a 000 suffix. example: 007-XXXXX-000
- 3) Top 2 rows of tubes in 12SC to 15S machines are bare copper C-122 tubes, quantity 16. See part nos. below:  
(12SC, 13S, 13SC & 14S 007-08446-000), (14SC & 15S 007-08426-000)
- 4) All tube material is copper, C-122.
- 5) Add 1/2" to the tube length column for units with 1" thick endsheets.

## ParaFlow

### Absorber Tubes all models "S" and "G" series machines

Chiller Model	Tube Length (in)	Tube nom. O.D.	Tube Wall nom. thk.	Tube Qty.	Tube Enhancements							
					Standard		A		B		C	
					Part no.	Type	Part no.	Type	Part No.	Type	Part no.	Type
<b>"S" Series Machines</b>												
12SC & 13S	126-1/8	5/8"	.025"	405	08446	Bare	08447	19 fpi	-	-	-	-
13SC & 14S	126-1/8	5/8"	.025"	405	08445	40 fpi	-	-	-	-	-	-
14SC & 15S	157-5/8	5/8"	.025"	405	07899	40 fpi	-	-	-	-	-	-
15SL	157-5/8	3/4"	.028"	525	08449	Bare <sup>3</sup>	-	-	-	-	-	-
16S	157-5/8	3/4"	.028"	525	08449	Bare <sup>3</sup>	-	-	-	-	-	-
16SL	197	3/4"	.028"	525	08474	Bare <sup>3</sup>	-	-	-	-	-	-
17S	197	3/4"	.028"	525	08474	Bare <sup>3</sup>	-	-	-	-	-	-
18S	236-3/8	3/4"	.028"	525	08428	Bare <sup>3</sup>	-	-	-	-	-	-
19S	275-3/4	3/4"	.028"	525	08479	Bare <sup>3</sup>	-	-	-	-	-	-
<b>"G" Series Machines</b>												
15GL(2)	157-5/8	5/8"	.025"	602	08426	Bare	08077	19 fpi	08426	Bare	08077	19 fpi
16G(2)	157-5/8	5/8"	.025"	602	08077	19 fpi	07899	40 fpi	08077	19 fpi	07899	40 fpi
16GL(2)	197-1/8	5/8"	.025"	602	08427	Bare	08079	19 fpi	08427	Bare	08079	19 fpi
17G(2)	197-1/8	5/8"	.025"	602	08079	19 fpi	08011	40 fpi	08079	19 fpi	08011	40 fpi
18G(2)	236-3/8	5/8"	.025"	602	08080	19 fpi	08012	40 fpi	08080	19 fpi	08012	40 fpi
19G(2)	271-7/8	5/8"	.025"	602	08081	19 fpi	08013	40 fpi	08081	19 fpi	08013	40 fpi
19GL	315-1/8	5/8"	.025"	602	08424	Bare	08078	19 fpi	08424	Bare	08078	19 fpi
20G	315-1/8	5/8"	.025"	823	08424	Bare	08078	19 fpi	08424	Bare	08078	19 fpi
21G	315-1/8	5/8"	.025"	946	08424	Bare	08078	19 fpi	08424	Bare	08078	19 fpi
22G	315-1/8	5/8"	.025"	1194	08424	Bare	08078	19 fpi	08424	Bare	08078	19 fpi
22GL	315-1/8	5/8"	.025"	1356	08424	Bare	08078	19 fpi	08424	Bare	08078	19 fpi

<b>TUBE DIMENSIONS AND TOLERANCES FOR ROLLING</b>												
Tube Type	Tube nom. O.D.	Bare Tubes			Plain Sections			Finned Sections			MTI #	R spec
		Wall Tol.	O.D. Tolerance	Tube nom. Wall	End O.D.	Skip O.D.	Wall Tol.	O.D. Min.	Root Dia.	Min. Wall		
Bare	5/8	+/- .003	+/- .004	.025"	-	-	-	-	-	-	-	658
Bare	3/4	+/- .003	+/- .006	.028"	-	-	-	-	-	-	-	658
Bare <sup>3</sup>	3/4	+/- .003	+/- .006	.028"	-	-	-	-	-	-	-	658
19 fpi	5/8	-	-	.025"	.619/.629	.619/.626	.039/.047	.609	.523	.022	503	657
40 fpi	5/8	-	-	.025"	.6225/.6275	.620/.626	.044/.051	.612	.500	.022	513	657

**Notes:**

- 1) All dimensions in inches.
- 2) All tube material C-122 copper except tubes in note 3.
- 3) Column of absorber tubes adjacent to evaporator are bare 90/10 CuNi, quantity 25 - 15SL to 19S machines only.  
90/10 CuNi tube part nos. (15SL & 16S - 08823), (16SL & 17S - 08808), (18S - 08824), (19S - 08825)
- 4) All YORK tube part numbers have a 007 prefix and a 000 suffix. example: 007-XXXXX-000
- 5) On Hitachi models, the 2 behind the model number is a revision level and does not change tonnage or size in any way.
- 6) Add 1/2" to the tube length column for units with 1" thick tubesheets.