

chapter VII- colors

colors

Apart from these metallic colors, **HYDRONIC ALTERNATIVES** offers a wide range of RAL and sanitary colors.

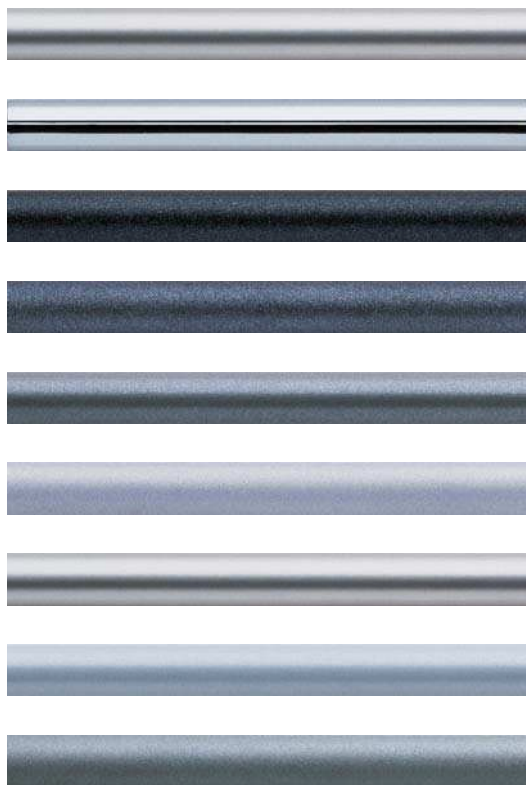
Your guarantee of quality and durability.

The radiators carry a 10-year guarantee covering both leakages and paintwork.

The radiators are made of the best materials and carefully checked before they leave the factory. Every appliance is fully automatically laser welded without visible welds. In contrast to the high-gloss finishing of chromium-plated radiators, the stainless steel radiators are brushed to give a matt finish.

Lacquered radiators are first degreased, phosphated, rinsed with demineralized water, primed using electrophoresis (KTL-bath) and then dried at 200°C. Finally, the radiator is painted with an electrostatic powder coating with epoxy polyester and enamelled at 230° C.

The result is a high quality product - a synthesis of good design, excellent materials and advanced technology.



STAINLESS STEEL

CHROME

M300 BLACK JANUARY

M301 ANTHRACITE JANUARY

M302 ALUMINIUM GREY JANUARY

M303 GREY WHITE JANUARY

M350 STAINLESS STEEL LOOK

RAL 9006 WHITE ALUMINIUM

RAL 9007 GREY ALUMINIUM

Attention: M350 stainless steel look: loss of heat output up to 24%

colors

NATURAL COLORS (MAT)

							
N500 Mist white	N501 Mist grey	N502 Sand light	N503 Sand	N504 Platinum grey	N505 Dust grey	N506 Warm grey	N507 Grey-brown



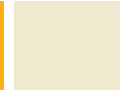





















Ref. nr:
Example:
N501 = 0501
N502 = 0502

METALLIC COLORS

						
M300 Black January	M301 Anthracite January	M302 Aluminium grey January	M303 Grey white January	M350 * Stainless steel look	RAL 9006 White aluminium	RAL 9007 Grey aluminium


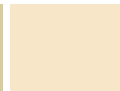

* Not available for all radiators

RAL COLORS

									
RAL 1001 Beige	RAL 1004 Golden yellow	RAL 1013 Oyster white	RAL 1015 Light ivory	RAL 1016 Sulfur yellow	RAL 1023 Traffic yellow	RAL 2002 Vermillion	RAL 3003 Ruby red	RAL 5002 Ultramarine blue	RAL 5003 Sapphire blue
									
RAL 5011 Steel blue	RAL 5014 Pigeon blue	RAL 5015 Sky blue	RAL 5022 Night blue	RAL 7001 Silver grey	RAL 7016 Anthracite grey	RAL 7030 Stone grey	RAL 7035 Light grey	RAL 8017 Chocolate brown	RAL 9001 Cream
									
RAL 9002 Gray white	RAL 9005 Jet black	RAL 9010 * Pure white	RAL 9016 Traffic white						

*supplement color: +15%

BRITISH COLORS

		
0200 Champagne	0201 Honey Moon	0204 Soft Cream

SANITARY COLORS

									
0003 Sunset	0004 Manhattan	0005 Anemone	0006 Canary	0007 Jasmin	0008 Beige	0009 Caramel	0010 Magnolia	0011 Edelweiss	0013 Flanel
									
0015 Whisper blue	0016 Camee	0017 Taupe	0019 Pergamon	0020 Bisque	0023 Arania	0024 Agais	0025 Lilac	0028 Black mat	0029 Blue Moon
									
0031 Classical white	0032 Satin Laser	0033 Graphite mat	0034 Satin Vanille	0035 Gloss Luxor	0037 Aloa	0040 Pearl	0041 Turquoise Royal	0042 Natura	0043 Glacier
									
0045 Key West	0046 Amethyst	0047 Alpin withe							

Standard colour is RAL 9016.
Price colour = price RAL 9016 + 15%.
Price M350 = price RAL 9016 + 35%.

The colours shown are only indicative.

colors

THE FOLLOWING COLORS ARE AVAILABLE ...

SANITARY COLORS

0003	55%	SUNSET	0024	55%	AGAIS
0004	55%	MANHATTAN	0025	high gloss	LILAC
0005	55%	ANEMONE	0028	25%	BLACK MAT
0006	high gloss	CANARY	0029	high gloss	BLUE MOON
0007	25%	JASMIN	0031	high gloss	KLASSICAL WHITE
0008	55%	BAHAMA BEIGE	0032	high gloss	SATIN LASER
0009	55%	CARAMEL	0033	25%	MATT GRAPHIT
0010	55%	MAGNOLIA	0034	55%	SATIN VANILLA
0011	25%	EDELWEISS	0035	high gloss	GLOSS LUXOR
0013	25%	FLANEL	0037	55%	ALOA
0015	55%	WHISPER BLUE	0040	55%	PEARL
0016	55%	CAMEE	0041	high gloss	ROYAL TURQUOISE
0017	55%	TAUPE	0042	55%	NATURA
0019	55%	PERGAMON	0043	high gloss	GLACIER
0020	55%	BISQUE	0045	high gloss	KEY WEST
0023	high gloss	ARANIA	0046	high gloss	AMETHYST

BRITISH COLORS

200	55%	CHAMPAGNE	201	55%	HONEY MOON
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RAL COLORS

RAL 1001	73%	BEIGE	RAL 7015	73%	SLATE GREY
RAL 1004	73%	GOLDEN YELLOW	RAL 7016	55%	ANTHRACITE GREY
RAL 1013	73%	OYSTER WHITE	RAL 7021	73%	BLACK GREY
RAL 1015	70%	LIGHT IVORY	RAL 7022	73%	SHADOW GREY
RAL 1016	70%	SULFUR YELLOW	RAL 7024	70%	GRAPHITE GREY
RAL 1023	70%	TRAFFIC YELLOW	RAL 7026	70%	GRANITE GREY
RAL 2002	70%	VERMILION	RAL 7030	70%	STONE GREY
RAL 2003	70%	PASTEL ORANGE	RAL 7032	90%	SILICA GREY
RAL 3002	73%	CARMINE REDD	RAL 7035	70%	LIGHT GREY
RAL 3003	70%	RUBY RED	RAL 7036	73%	PLATINUM GREY
RAL 3004	70%	PURPLE RED	RAL 7037	90%	DUST GREY
RAL 3005	73%	WINE RED	RAL 7038	50%	AGATE GREY
RAL 5002	73%	ULTRAMARINE BLUE	RAL 7044	73%	SILK GREY
RAL 5003	70%	SAPPHIRE BLUE	RAL 8017	73%	CHOCOLATE BROWN
RAL 5011	73%	STEEL BLUE	RAL 8019	60%	GREY BROWN
RAL 5013	70%	COBALT BLUE	RAL 9001	55%	CREAM
RAL 5014	70%	PIGEON BLUE	RAL 9002	73%	GREY WHITE
RAL 5015	70%	SKY BLUE	RAL 9003	70%	SIGNAL WHITE
RAL 5022	70%	NIGHT BLUE	RAL 9005	70%	JET BLACK
RAL 7001	90%	SILVER GREY	RAL 9006		WHITE ALUMINIUM
RAL 7004	70%	SIGNAL GREY	RAL 9007		GREY ALUMINIUM
RAL 7011	70%	IRON GREY	RAL 9010	55%	PURE WHITE

METALLIC COLORS

M300	0%	BLACK JANUARY	M302	30%	ALUMINIUM GREY JANUARY
M301	30%	ANTHRACITE JANUARY	M303	0%	GREY WHITE JANUARY

NATURAL COULORS

N500	MIST WHITE	N503	SAND
N501	MIST GREY	N504	PLATINUM GREY
N502	SAND LIGHT	N505	DUST GREY

Attention: M350 stainless steel look: loss of heat output up to 24%.
The percentages refer to the gloss rate of the color.

colors

panel radiators

standard color = RAL 9016

other available RAL colors, add at the order code /... and complete the RAL-color. Ex. INT226001350/3003 for a radiator in RAL 3003.

\$ 150.00

design radiators

standard color = RAL 9016

other available RAL colors, add at the order code /... and complete the RAL-color. Ex. KOH206001350/3003 for a radiator in RAL 3003.

25 % supplement

bathroom radiators

standard color = RAL 9016

other available RAL colors, add at the order code /... and complete the RAL-color. Ex. EL0408/3003 for a radiator in RAL 3003.

25 % supplement

column radiators

standard color Delta Laserline = RAL 9016

other available RAL colors, add at the order code /... and complete the RAL-color. Ex. S1-2040/10/3003 for a radiator in RAL 3003.

25 % supplement

code Radson	Intern. RAL-code	code Radson	Intern. RAL-code	code Radson	Intern. RAL-code	code Radson	Intern. RAL-code
PP1000	RAL 1000	PP2001	RAL 2001	PP3027	RAL 3027	PP5017	RAL 5017
PP1001	RAL 1001	PP2002	RAL 2002	PP3031	RAL 3031	PP5018	RAL 5018
PP1002	RAL 1002	PP2003	RAL 2003	PP4001	RAL 4001	PP5019	RAL 5019
PP1003	RAL 1003	PP2004	RAL 2004	PP4002	RAL 4002	PP5020	RAL 5020
PP1004	RAL 1004	PP2008	RAL 2008	PP4003	RAL 4003	PP5021	RAL 5021
PP1005	RAL 1005	PP2009	RAL 2009	PP4004	RAL 4004	PP5022	RAL 5022
PP1006	RAL 1006	PP2010	RAL 2010	PP4005	RAL 4005	PP5023	RAL 5023
PP1007	RAL 1007	PP2011	RAL 2011	PP4006	RAL 4006	PP5024	RAL 5024
PP1011	RAL 1011	PP2012	RAL 2012	PP4007	RAL 4007	PP6000	RAL 6000
PP1012	RAL 1012	PP3000	RAL 3000	PP4008	RAL 4008	PP6001	RAL 6001
PP1013	RAL 1013	PP3001	RAL 3001	PP4009	RAL 4009	PP6002	RAL 6002
PP1014	RAL 1014	PP3002	RAL 3002	PP4010	RAL 4010	PP6003	RAL 6003
PP1015	RAL 1015	PP3003	RAL 3003	PP5000	RAL 5000	PP6004	RAL 6004
PP1016	RAL 1016	PP3004	RAL 3004	PP5001	RAL 5001	PP6005	RAL 6005
PP1017	RAL 1017	PP3005	RAL 3005	PP5002	RAL 5002	PP6006	RAL 6006
PP1018	RAL 1018	PP3007	RAL 3007	PP5003	RAL 5003	PP6007	RAL 6007
PP1019	RAL 1019	PP3009	RAL 3009	PP5004	RAL 5004	PP6008	RAL 6008
PP1020	RAL 1020	PP3011	RAL 3011	PP5005	RAL 5005	PP6009	RAL 6009
PP1021	RAL 1021	PP3012	RAL 3012	PP5007	RAL 5007	PP6010	RAL 6010
PP1023	RAL 1023	PP3013	RAL 3013	PP5008	RAL 5008	PP6011	RAL 6011
PP1024	RAL 1024	PP3014	RAL 3014	PP5009	RAL 5009	PP6012	RAL 6012
PP1027	RAL 1027	PP3015	RAL 3015	PP5010	RAL 5010	PP6013	RAL 6013
PP1028	RAL 1028	PP3016	RAL 3016	PP5011	RAL 5011	PP6014	RAL 6014
PP1032	RAL 1032	PP3017	RAL 3017	PP5012	RAL 5012	PP6015	RAL 6015
PP1033	RAL 1033	PP3018	RAL 3018	PP5013	RAL 5013	PP6016	RAL 6016
PP1034	RAL 1034	PP3020	RAL 3020	PP5014	RAL 5014	PP6017	RAL 6017
PP2000	RAL 2000	PP3022	RAL 3022	PP5015	RAL 5015	PP6018	RAL 6018

colors

code Radson	Intern. RAL-code
PP6019	RAL 6019
PP6020	RAL 6020
PP6021	RAL 6021
PP6022	RAL 6022
PP6024	RAL 6024
PP6025	RAL 6025
PP6026	RAL 6026
PP6027	RAL 6027
PP6028	RAL 6028
PP6029	RAL 6029
PP6032	RAL 6032
PP6033	RAL 6033
PP6034	RAL 6034
PP7000	RAL 7000
PP7001	RAL 7001
PP7002	RAL 7002
PP7003	RAL 7003
PP7004	RAL 7004
PP7005	RAL 7005
PP7006	RAL 7006
PP7008	RAL 7008
PP7009	RAL 7009
PP7010	RAL 7010
PP7011	RAL 7011
PP7012	RAL 7012
PP7013	RAL 7013
PP7015	RAL 7015

code Radson	Intern. RAL-code
PP7016	RAL 7016
PP7021	RAL 7021
PP7022	RAL 7022
PP7023	RAL 7023
PP7024	RAL 7024
PP7026	RAL 7026
PP7030	RAL 7030
PP7031	RAL 7031
PP7032	RAL 7032
PP7033	RAL 7033
PP7034	RAL 7034
PP7035	RAL 7035
PP7036	RAL 7036
PP7037	RAL 7037
PP7038	RAL 7038
PP7039	RAL 7039
PP7040	RAL 7040
PP7042	RAL 7042
PP7043	RAL 7043
PP7044	RAL 7044
PP7045	RAL 7045
PP7046	RAL 7046
PP7047	RAL 7047
PP8000	RAL 8000
PP8001	RAL 8001
PP8002	RAL 8002
PP8003	RAL 8003

code Radson	Intern. RAL-code
PP8004	RAL 8004
PP8007	RAL 8007
PP8008	RAL 8008
PP8011	RAL 8011
PP8012	RAL 8012
PP8014	RAL 8014
PP8015	RAL 8015
PP8016	RAL 8016
PP8017	RAL 8017
PP8019	RAL 8019
PP8022	RAL 8022
PP8023	RAL 8023
PP8024	RAL 8024
PP8025	RAL 8025
PP8028	RAL 8028
PP9001	RAL 9001
PP9002	RAL 9002
PP9003	RAL 9003
PP9004	RAL 9004
PP9005	RAL 9005
PP9006	RAL 9006
PP9007	RAL 9007
PP9010	RAL 9010
PP9011	RAL 9011
PP9016	RAL 9016
PP9017	RAL 9017
PP9018	RAL 9018

code Radson	Intern. RAL-code
RP0001	ALBA
RP0002	EDELWEISS
RP0003	PERGAMON
RP0004	CAMEE
RP0005	JASMIJN
RP0006	NATURA
RP0007	ANEMONE
RP0008	BAHAMA
RP0009	STELLA
RP0010	MAGNOLIA
RP0011	SUNSET
RP0012	MANHATTAN
RP0013	AGAÏS
RP0014	GREENWICH
RP0015	CALYPSO
RP0016	TURKIS ROYAL
RP0017	MENTO GRUEN
RP0018	SATIN LASER
RP0019	CHINCHILLA
RP0020	FLANEL
RP0021	KEY WEST
RP0022	CROCUS
RP0023	WHISPER BLAU
RP0024	BERMUDA BLAU
RP0025	ALOA
RP0026	LILAC

metallic colors

- Are also available :
 - Metal Alu 0201
 - Metal Grey 0102
 - Metal Black 0104
- The price is identical to the above mentioned supplements.

galvanisation

For humid spaces Radson supplies a galvanised design. The price amounts to twice that of the ordinary design.



Metal Alu 0201



Metal Grey 0102

correction factors

Example :

- Heat output needed : 3600 BTU/hr
- Room temperature $T_i = 72^\circ\text{F}$
- Hot water temperature = 167 /122° C
- i.e.
 $T_v = 167^\circ$ (supply) =167°F
 $T_r = 122^\circ$ (return) = 122° F

Solution:

- The correction factor = 0.61
- Radiator type
 e.g.
 $3600 : 0.61 = 5901\text{Btu/hr}$
 for 200/180/20°F
- This becomes HDM 50/750 with
 heat output of 6,755 Btu/hr

$n_{\text{exponent}} = 1.27$		T_r												T_i							
		°C	35°C	40°C	45°C	50°C	55°C	60°C	65°C	70°C	75°C	80°C	°F			95°F	104°F	113°F	122°F	131°F	140°F
T_v	°F	T_v	°C	T_i	°F	T_i	°C														
200°F	90°C	61°F	16°C	0.72	0.77	0.83	0.87	0.93	0.98	1.03	1.09	1.14	1.20	16°C	61°F						
		64°F	18°C	0.68	0.73	0.79	0.83	0.89	0.94	0.99	1.04	1.10	1.15	18°C	64°F						
		68°F	20°C	0.64	0.69	0.75	0.79	0.84	0.90	0.94	1.00	1.06	1.11	20°C	68°F						
		72°F	22°C	0.61	0.66	0.71	0.75	0.80	0.86	0.90	0.96	1.01	1.06	22°C	72°F						
		75°F	24°C	0.57	0.62	0.67	0.71	0.76	0.82	0.87	0.91	0.97	1.02	24°C	75°F						
185°F	85°C	61°F	16°C	0.67	0.72	0.77	0.83	0.87	0.93	0.98	1.03	1.09	16°C	61°F							
		64°F	18°C	0.63	0.68	0.73	0.79	0.83	0.89	0.94	0.99	1.04	18°C	64°F							
		68°F	20°C	0.60	0.64	0.69	0.75	0.79	0.84	0.90	0.94	1.00	20°C	68°F							
		72°F	22°C	0.56	0.61	0.66	0.71	0.75	0.80	0.86	0.90	0.96	22°C	72°F							
		75°F	24°C	0.52	0.57	0.62	0.67	0.71	0.76	0.82	0.87	0.91	24°C	75°F							
176°F	80°C	61°F	16°C	0.63	0.67	0.72	0.77	0.83	0.87	0.93	0.98	16°C	61°F								
		64°F	18°C	0.59	0.63	0.68	0.73	0.79	0.83	0.89	0.94	18°C	64°F								
		68°F	20°C	0.55	0.60	0.64	0.69	0.75	0.79	0.84	0.90	20°C	68°F								
		72°F	22°C	0.52	0.56	0.61	0.66	0.71	0.75	0.80	0.86	22°C	72°F								
		75°F	24°C	0.48	0.52	0.57	0.62	0.67	0.71	0.76	0.82	24°C	75°F								
167°F	75°C	61°F	16°C	0.58	0.63	0.67	0.72	0.77	0.83	0.87	16°C	61°F									
		64°F	18°C	0.54	0.59	0.63	0.68	0.73	0.79	0.83	18°C	64°F									
		68°F	20°C	0.51	0.55	0.60	0.64	0.69	0.75	0.79	20°C	68°F									
		72°F	22°C	0.47	0.52	0.56	0.61	0.66	0.71	0.75	22°C	72°F									
		75°F	24°C	0.43	0.48	0.52	0.57	0.62	0.67	0.71	24°C	75°F									
158°F	70°C	61°F	16°C	0.53	0.58	0.63	0.67	0.72	0.77	16°C	61°F										
		64°F	18°C	0.49	0.54	0.59	0.63	0.68	0.73	18°C	64°F										
		68°F	20°C	0.46	0.51	0.55	0.60	0.64	0.69	20°C	68°F										
		72°F	22°C	0.42	0.47	0.52	0.56	0.61	0.66	22°C	72°F										
		75°F	24°C	0.39	0.43	0.48	0.52	0.57	0.62	24°C	75°F										
149°F	65°C	61°F	16°C	0.48	0.53	0.58	0.63	0.67	16°C	61°F											
		64°F	18°C	0.45	0.49	0.54	0.59	0.63	18°C	64°F											
		68°F	20°C	0.41	0.46	0.51	0.55	0.60	20°C	68°F											
		72°F	22°C	0.38	0.42	0.47	0.52	0.56	22°C	72°F											
		75°F	24°C	0.35	0.39	0.43	0.48	0.52	24°C	75°F											
140°F	60°C	61°F	16°C	0.44	0.48	0.53	0.58	16°C	61°F												
		64°F	18°C	0.40	0.45	0.49	0.54	18°C	64°F												
		68°F	20°C	0.37	0.41	0.46	0.51	20°C	68°F												
		72°F	22°C	0.34	0.38	0.42	0.47	22°C	72°F												
		75°F	24°C	0.30	0.35	0.39	0.43	24°C	75°F												
131°F	55°C	61°F	16°C	0.40	0.44	0.48	16°C	61°F													
		64°F	18°C	0.37	0.40	0.45	18°C	64°F													
		68°F	20°C	0.33	0.37	0.41	20°C	68°F													
		72°F	22°C	0.29	0.34	0.38	22°C	72°F													
		75°F	24°C	0.26	0.30	0.35	24°C	75°F													
122°F	50°C	61°F	16°C	0.36	0.40	16°C	61°F														
		64°F	18°C	0.32	0.37	18°C	64°F														
		68°F	20°C	0.29	0.33	20°C	68°F														
		72°F	22°C	0.25	0.29	22°C	72°F														
		75°F	24°C	0.22	0.26	24°C	75°F														
113°F	45°C	61°F	16°C	0.31	16°C	61°F															
		64°F	18°C	0.28	18°C	64°F															
		68°F	20°C	0.25	20°C	68°F															
		72°F	22°C	0.21	22°C	72°F															
		75°F	24°C	0.19	24°C	75°F															