

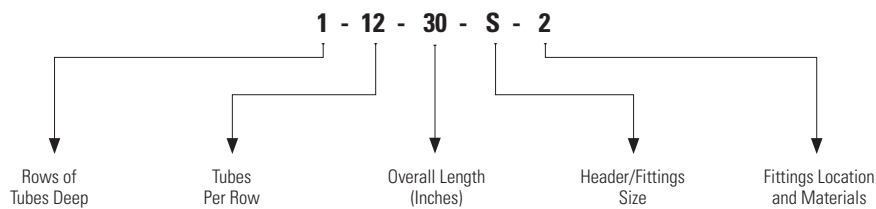
# Hayden and Dunham-Bush to Thermal Transfer Products

## Air Cooled Cross Reference

| HAYDEN        |                    | DUNHAM-BUSH/KOOL-MOR    |                     | THERMAL TRANSFER |                     |
|---------------|--------------------|-------------------------|---------------------|------------------|---------------------|
| Model Number  | Face Areas(Sq. Ft) | Model Number            | Face Areas (Sq. Ft) | Model Number     | Face Areas (Sq. Ft) |
| 10318S1/R1    | .6                 | DB-1238/DB-1240         | .57/.59             | M-10             | .60                 |
| 10324S1/R1    | .8                 | DB-1230                 | .84                 | M-15             | .81                 |
| 10418S1/R1    |                    | DB-1231                 | .82                 |                  |                     |
| 10421S1/R1    | .93                | DB-1241/DB-1242         | .96/.93             | M-20             | 1.21                |
| 10424S1/R1    | 1.1                | DB-1267/DB-1268         | 1.1/1.5             |                  |                     |
| 10618S1/R1    | 1.2                |                         |                     |                  |                     |
| 10621S1/R1    | 1.4                |                         |                     |                  |                     |
| 10724S1/R1    | 1.9                |                         |                     |                  |                     |
| 10824S1/R1    | 2.1                |                         |                     | M-25             | 2.56                |
| 10924S1/S2/R1 | 2.4                | DB-1269/DB-1290/DB-1291 | 2.5/2.4/2.5         | M-30             | 3.25                |
| 11024S2       | 2.7                | DB-1299                 | 2.7                 |                  |                     |
| 11224S1/S2/R1 | 3.2                | DB-1292/DB-1293/DB-1294 | 3.2/3.2/3.1         | M-35             | 4.06                |
| 11230S2       | 4.0                | DB-1271                 | 4.2                 |                  |                     |
| 11524S1/R1    |                    |                         | DB-1295/DB-2305     | 3.9/4.0          | M-40                |
| 11530S1/R1    | 5.0                | DB-1296/DB-2306         | 5.2/5.3             |                  |                     |
| 11536S1/R1    | 6.0                | DB-1277/DB-1297         | 5.5/5.9             |                  |                     |
| 11830S1/R1    |                    |                         | DB-2307             | 6.7              | M-45                |
| 11840S1/R1    | 8.0                | DB-1298/DB-2308         | 8.4/8.2             |                  |                     |
| 12042S1/R1    | 9.3                | DB-2312                 | 9.9                 |                  |                     |

Note: Cross referenced models are based on similar face areas. Physical sizes may not be equal.

### Hayden Model Number (Coding)



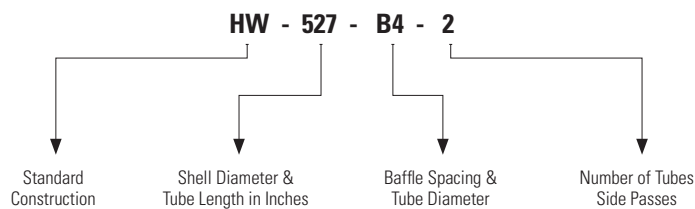
# Hayden to Thermal Transfer Products

## Water Cooled Cross Reference

| Hayden Model Number | Thermal Transfer Model Number |
|---------------------|-------------------------------|
| HW-209-A4-1         | B-401-A4-O                    |
| HW-218-A4-1         | B-402-A4-O                    |
| HW-309-A4-1         | B-701-A4-O                    |
| HW-309-A4-2         | B-701-A4-T                    |
| HW-309-A4-4         | B-701-A4-F                    |
| HW-318-B4-1         | B-702-B4-O                    |
| HW-318-B4-2         | B-702-B4-T                    |
| HW-318-B4-4         | B-702-B4-F                    |
| HW-327-B4-1         | B-703-B4-O                    |
| HW-327-B4-2         | B-703-B4-T                    |
| HW-327-B4-4         | B-703-B4-F                    |
| HW-327-C4-1         | B-703-C4-O                    |
| HW-327-C4-2         | B-703-C4-T                    |
| HW-327-C4-4         | B-703-C4-F                    |
| HW-518-B4-1         | B-1002-B4-O                   |
| HW-518-B4-2         | B-1002-B4-F                   |
| HW-518-B4-4         | B-1002-B4-T                   |
| HW-527-B4-1         | B-1003-B4-O                   |
| HW-527-B4-2         | B-1003-B4-T                   |
| HW-527-B4-4         | B-1003-B4-F                   |

*Thermal Interchanges Only—Not Dimensionally*

## Hayden Model Number (Coding)



# Hayden to Thermal Transfer Products

## Air Cooled Cross Reference

|                               |                            | HAYDEN           |            | THERMAL TRANSFER |                  |             |        |
|-------------------------------|----------------------------|------------------|------------|------------------|------------------|-------------|--------|
| Model Series                  | Model Number               | Number of Passes | Flow Range | Model Number     | Number of Passes | Flow Range  |        |
| Temp-Toller Industrial Series | IND-108                    | 1                | 4-32       | AOVH-15          | 1                | 8-160       |        |
|                               |                            | 2                | 2-16       |                  | 2                | 4-60        |        |
|                               | IND-208                    | 1                | 8-64       | AOVH-20          | 1                | 10-160      |        |
|                               |                            | 2                | 4-32       |                  | 2                | 4-80        |        |
|                               | IND-113                    | 1                | 6-52       | AOVH-25          | 1                | 12-200      |        |
|                               |                            | 2                | 3-24       |                  | 2                | 4-80        |        |
|                               | IND-213                    | 1                | 12-105     | AOVH-35          | 1                | 14-200      |        |
|                               |                            | 2                | 8-52       |                  | 2                | 4-80        |        |
|                               | IND-313                    | 1                | 20-155     | AOVH-35          | 1                | 16-220      |        |
|                               |                            | 2                | 10-75      |                  | 2                | 6-80        |        |
|                               | Temp-Toller Hundred Series | TT-206           | 1          | 6-48             | AOVH-10          | 1           | 6-160  |
|                               |                            |                  | 2          | 3-21             |                  | 2           | 4-60   |
| TT-208                        |                            | 1                | 8-64       | AOVH-20          | 1                | 10-160      |        |
|                               |                            | 2                | 4-31       |                  | 2                | 4-80        |        |
| TT-308                        |                            | 1                | 12-96      | AOVH-20          | 1                | 10-160      |        |
|                               |                            | 2                | 6-47       |                  | 2                | 4-80        |        |
| TT-210                        |                            | 1                | 10-80      | AOVH-25          | 1                | 12-200      |        |
|                               |                            | 2                | 5-40       |                  | 2                | 4-80        |        |
| TT-212                        |                            | 1                | 12-96      | AOVH-30          | 1                | 14-200      |        |
|                               |                            | 2                | 6-48       |                  | 2                | 4-80        |        |
| TT-214                        |                            | 1                | 14-112     | AOVH-35          | 1                | 16-220      |        |
|                               |                            | 2                | 6-56       |                  | 2                | 6-80        |        |
| TT-314                        |                            | 1                | 20-165     | AOVH-40          | 1                | 18-230      |        |
|                               |                            | 2                | 10-83      |                  | 2                | 8-80        |        |
| TT-318                        |                            | 1                | 30-210     | AOL-950          | 1 Pass Only      | 23-150      |        |
|                               |                            | 2                | 12-105     | AOVH-40          |                  | 18-230      |        |
| TT-418                        |                            | 1                | 45-285     | AOL-1200         |                  | 23-150      |        |
|                               |                            | 2                | 15-145     |                  |                  |             |        |
| Temp-Toller Jumbo Series      |                            | TT-321           | 1          | 30-250           | AOL-1600         | 1 Pass Only | 30-165 |
|                               |                            |                  | 2          | 15-125           |                  |             |        |
|                               | TT-324                     | 1                | 35-290     | AOL-2000         | 30-200           |             |        |
|                               |                            | 2                | 15-220     |                  |                  |             |        |
|                               | TT-327                     | 1                | 40-330     | AOL-2500         | 35-225           |             |        |
|                               |                            | 2                | 20-165     |                  |                  |             |        |
|                               | TT-430                     | 1                | 60-480     | AOL-3500         | 45-310           |             |        |
|                               |                            | 2                | 30-240     |                  |                  |             |        |

Flow ranges are in Gallons Per Minute (GPM). All models are Approximate Thermal, Non-dimensional.

# Hayden to Thermal Transfer Products

## Air Cooled Cross Reference

| NPT PORTS           |                    |                               | SAE PORTS          |                               |
|---------------------|--------------------|-------------------------------|--------------------|-------------------------------|
| Hayden Model Number | Hayden Part Number | Thermal Transfer Model Number | Hayden Part Number | Thermal Transfer Model Number |
| 10215               | 001243             | DH-051-1-1                    | 016000             | DH-051-2-1                    |
| 10315               | 002514             | DH-062-1-1                    | 016002             | DH-062-2-1                    |
| 10318               | 001269             | DH-073-1-1                    | 016004             | DH-073-2-1                    |
| 10324               | 001563             | DH-084-1-1                    | 016005             | DH-084-2-1                    |
| 10418               | 003109             | DH-095-1-1                    | 016012             | DH-095-2-1                    |
| 10421               | 001564             | DH-106-1-1                    | 012010             | DH-106-2-1                    |
| 10424               | 001810             | DH-117-1-1                    | 016008             | DH-117-2-1                    |
| 10618               | 001251             | DH-194-1-1                    | 016013             | DH-194-2-1                    |
| 10624               | 001267             | DH-216-1-1                    | 016017             | DH-216-2-1                    |
| 10724               | 001264             | DH-227-1-1                    | 016020             | DH-227-2-1                    |
| 10924               | 001260             | DH-249-1-1                    | 016024             | DH-249-2-1                    |
| 11224               | 001778             | DH-326-1-1                    | 016032             | DH-326-2-1                    |
| 11230               | 001695             | DH-337-1-1                    | 016030             | DH-337-2-1                    |
| 11524               | 001865             | DH-348-1-1                    | 016038             | DH-348-2-1                    |
| 11530               | 001860             | DH-359-1-1                    | 016036             | DH-359-2-1                    |
| 11536               | 001861             | DH-370-1-1                    | 016034             | DH-370-2-1                    |
| 11830               | 001788             | DH-425-1-1*                   | 016039             | DH-425-2-1*                   |
| 12042               | 002248             | DH-447-1-1*                   | 016044             | DH-447-2-1*                   |
| 20215               | 025362             | DH-502-1-1*                   | 025363             | DH-502-2-1*                   |
| 20618               | 025348             | DH-513-1-1*                   | 025364             | DH-513-2-1*                   |
| 20924               | 025365             | DH-524-1-1*                   | 025366             | DH-524-2-1*                   |
| 21224               | 025367             | DH-535-1-1*                   | 025368             | DH-535-2-1*                   |
| 21830               | 025817             | DH-626-1-1*                   | 020111             | DH-626-2-1*                   |
| 21842               | 025818             | DH-649-1-1*                   | 020112             | DH-649-2-1*                   |
| 22042               | 025819             | DH-670-1-1*                   | 020113             | DH-670-2-1*                   |

All models are thermal and dimensional interchanges unless indicated.

\*Thermal, very close dimensional interchanges.

# Hayden to Thermal Transfer Products

## Air Cooled Cross Reference

| Hayden Number | Thermal Transfer Model Number |
|---------------|-------------------------------|
| 10215-S1      | DH-051-1                      |
| 10315-S1      | DH-062-1                      |
| 10318-S1      | DH-073-1                      |
| 10324-S1      | DH-084-1                      |
| 10418-S1      | DH-095-1                      |
| 10421-S1      | DH-106-1                      |
| 10424-S1      | DH-117-1                      |
| 10618-S1      | DH-194-1                      |
| 10621-S1      | DH-205-1                      |
| 10624-S1      | DH-216-1                      |
| 10724-S1      | DH-227-1                      |
| 10824-S1      | DH-238-1                      |
| 10924-S1      | DH-249-1                      |
| 11224-S1      | DH-326-1                      |
| 11230-S1      | DH-337-1                      |
| 11524-S1      | DH-348-1                      |
| 11530-S1      | DH-359-1                      |
| 11536-S1      | DH-370-1                      |
| 11830-S1      | DH-425-1                      |
| 11840-S1      | DH-436-1                      |
| 12042-S1      | DH-447-1                      |

| Hayden Number | Thermal Transfer Model Number |
|---------------|-------------------------------|
| 10215-V1      | DH-051-2                      |
| 10315-V1      | DH-062-2                      |
| 10318-V1      | DH-073-2                      |
| 10324-V1      | DH-084-2                      |
| 10418-V1      | DH-095-2                      |
| 10421-V1      | DH-106-2                      |
| 10424-V1      | DH-117-2                      |
| 10618-V1      | DH-194-2                      |
| 10621-V1      | DH-205-2                      |
| 10624-V1      | DH-216-2                      |
| 10724-V1      | DH-227-2                      |
| 10824-V1      | DH-238-2                      |
| 10924-V1      | DH-249-2                      |
| 11224-V1      | DH-326-2                      |
| 11230-V1      | DH-337-2                      |
| 11524-V1      | DH-348-2                      |
| 11530-V1      | DH-359-2                      |
| 11536-V1      | DH-370-2                      |
| 11830-V1      | DH-425-2                      |
| 11840-V1      | DH-436-2                      |
| 12042-V1      | DH-447-2                      |

| Hayden Number | Thermal Transfer Model Number |
|---------------|-------------------------------|
| 10215-R1      | DH-051-4                      |
| 10315-R1      | DH-062-4                      |
| 10318-R1      | DH-073-4                      |
| 10324-R1      | DH-084-4                      |
| 10418-R1      | DH-095-4                      |
| 10421-R1      | DH-106-4                      |
| 10424-R1      | DH-117-4                      |
| 10618-R1      | DH-194-4                      |
| 10621-R1      | DH-205-4                      |
| 10624-R1      | DH-216-4                      |
| 10724-R1      | DH-227-4                      |
| 10824-R1      | DH-238-4                      |
| 10924-R1      | DH-249-4                      |
| 11224-R1      | DH-326-4                      |
| 11230-R1      | DH-337-4                      |
| 11524-R1      | DH-348-4                      |
| 11530-R1      | DH-359-4                      |
| 11536-R1      | DH-370-4                      |
| 11830-R1      | DH-425-4                      |
| 11840-R1      | DH-436-4                      |
| 12042-R1      | DH-447-4                      |

| Hayden Number | Thermal Transfer Model Number |
|---------------|-------------------------------|
| 10215-W1      | DH-051-5                      |
| 10315-W1      | DH-062-5                      |
| 10318-W1      | DH-073-5                      |
| 10324-W1      | DH-084-5                      |
| 10418-W1      | DH-095-5                      |
| 10421-W1      | DH-106-5                      |
| 10424-W1      | DH-117-5                      |
| 10618-W1      | DH-194-5                      |
| 10621-W1      | DH-205-5                      |
| 10624-W1      | DH-216-5                      |
| 10724-W1      | DH-227-5                      |
| 10824-W1      | DH-238-5                      |
| 10924-W1      | DH-249-5                      |
| 11224-W1      | DH-326-5                      |
| 11230-W1      | DH-337-5                      |
| 11524-W1      | DH-348-5                      |
| 11530-W1      | DH-359-5                      |
| 11536-W1      | DH-370-5                      |
| 11830-W1      | DH-425-5                      |
| 11840-W1      | DH-436-5                      |

| Hayden Number | Thermal Transfer Model Number |
|---------------|-------------------------------|
| 12042-W1      | DH-447-5                      |
| 20215-S1      | DH-502-1                      |
| 20618-S1      | DH-513-1                      |
| 20624-S1      | DH-519-1                      |
| 20924-S1      | DH-524-1                      |
| 21224-S1      | DH-535-1                      |
| 21830-T1      | DH-626-1                      |
| 21842-T1      | DH-649-1                      |
| 22042-T1      | DH-670-1                      |
| 20215-V1      | DH-502-2                      |
| 20618-V1      | DH-513-2                      |
| 20624-V1      | DH-519-2                      |
| 20924-V1      | DH-524-2                      |
| 21224-V1      | DH-535-2                      |
| 21830-Y1      | DH-626-2                      |
| 21842-Y1      | DH-649-2                      |
| 22042-Y1      | DH-670-2                      |

The Thermal Transfer models indicated are both thermally and dimensionally interchangeable with the Hayden models they replace.