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Heatex Select REST API Subscription Guide

Overview

This guide explains how to sign up and subscribe to the Heatex REST API.

Getting Started

Sign Up for an Account

1. Navigate to the developer portal: https://developerportal.heatex.com/

2. Click **“Sign up”**

3. Fill in the registration form:
   3.1. **Email address** - Your work email
   3.2. **Password** - Choose a secure password
   3.3. **First name** - Your first name
   3.4. **Last name** - Your last name
   3.5. Complete the captcha

4. Click **“Sign up”** to submit the form

5. Check your email inbox for a verification link and click it to confirm your account

Subscribe to the API

1. Sign in to the developer portal with your new account credentials

2. Click **“Subscribe”** in the top navigation menu

3. From the products list, select the **“Production”** product

4. Click the **“Subscribe”** button

5. Enter a descriptive name for your subscription (e.g., “My Application” or your company name)

6. Click **“Confirm”** to complete the subscription

7. Your subscription key will be displayed on screen. **Copy and save this key securely** - you will need it for all API requests.

Keep your subscription key confidential. Do not share it publicly or commit it to source control.

Using Your Subscription Key

Include the subscription key in all API requests using the HTTP header:

```
Ocp-Apim-Subscription-Key: your-subscription-key-here
```

Base URL

Environment	URL
Production	`https://api.heatex.com`

Example API Calls

Rotor Performance Calculation

```
POST https://api.heatex.com/api/HeatexExchangerCalculationApi/rotary/calcu
late-performance
Content-Type: application/json
Ocp-Apim-Subscription-Key: your-subscription-key-here

{
  "exhaustMassFlow": 1.0,
  "exhaustPressure": 0.0,
  "exhaustTemperature": 20.0,
  "exhaustMoisture": 0.0057,
  "supplyMassFlow": 1.67,
  "supplyPressure": 0.0,
  "supplyTemperature": 4.0,
  "supplyMoisture": 0.0017,
  "differentialPressure": 250.0,
  "inletAirPressure": 101325.0,
  "season": 0,
  "purgeSectorPosition": "NoPurgeSector",
  "sealsType": "StandardSeals",
  "material": "Aluminium",
  "outerDiameter": 1.3,
  "rotationalSpeed": 12.0,
  "wellHeight": 0.002,
  "rotorDepth": 0.2,
  "shadowFactor": 0.0,
  "wheelModel": "ModelOAndE",
  "casingModel": "NoCasing"
}
```

Rotor Price Calculation

```
POST https://api.heatex.com/api/HeatexExchangerCalculationApi/rotary/calcu
late-price
Content-Type: application/json
Ocp-Apim-Subscription-Key: your-subscription-key-here

{
  "material": "Aluminium",
  "outerDiameter": 1.2,
  "wellHeight": 0.002,
  "rotorDepth": 0.2,
  "rotorPosition": "Horizontal",
  "casing": "1",
  "casingHeight": 0.0,
  "casingWidth": 0.0,
  "hubTypeValue": "2",
  "driveEquipment": "6",
  "driveLocation": "2",
  "purgeSector": "0",
  "driveBelt": "2",
  "options": 0,
  "discount": 0.0,
  "rotationDetector": "NoDetector",
  "orientation": "1",
  "modelType": "ModelOAndE",
  "sealType": "StandardSeals",
  "eS_ER_Assembly": 0,
  "cleanBlade": "0"
}
```

Plate Performance Calculation

```
POST https://api.heatex.com/api/HeatexExchangerCalculationApi/plate/calcul
ate-performance
Content-Type: application/json
Ocp-Apim-Subscription-Key: your-subscription-key-here

{
  "exchangerModel": "H20600/6.0/E",
  "totalWidth": 2.5,
  "numberOfSteps": 1,
  "bypassCode": 0.0,
  "inletAirPressure": 101325.0,
  "useDiffPressure": 0,
  "shapeForUnevenFlow": 1.0,
  "horizontalPlates": 0,
  "season": 0,
  "exhaustMassFlow": 1.5,
  "exhaustPressure": 101325.0,
  "exhaustTemperature": 22.0,
  "exhaustMoisture": 0.008,
  "supplyMassFlow": 1.5,
  "supplyPressure": 101325.0,
  "supplyTemperature": -10.0,
  "supplyMoisture": 0.002,
  "isImperialUnit": false
}
```

Plate Price Calculation

```
POST https://api.heatex.com/api/HeatexExchangerCalculationApi/plate/calcul
ate-price
Content-Type: application/json
Ocp-Apim-Subscription-Key: your-subscription-key-here

{
  "exchangerModel": "H20600/6.0/E",
  "material": 0,
  "sealing": 2,
  "profileType": 1,
  "totalWidth": 2.5,
  "bypassWidth": 0.5,
  "bypassType": 1,
  "damperWidth": 2.0,
  "damperType": 1,
  "numberOfSteps": 1,
  "corrosionProtectedFramework": 1,
  "individualAirTightnessTest": 0,
  "lacqueredPlateEdges": 1,
  "discount": 10.0,
  "damperShaftCode": 0,
  "horizontalPlates": 0,
  "aquaseal": 0,
  "individualWaterTightnessTest": 0,
  "isImperialUnit": false,
  "isUsaUser": false,
  "productCode": "",
  "damperProductCode": ""
}
```

C# Example

```
using System.Net.Http.Json;

const string baseUrl = "https://api.heatex.com";
const string subscriptionKey = "your-subscription-key-here";

using var client = new HttpClient();
client.BaseAddress = new Uri(baseUrl);
client.DefaultRequestHeaders.Add("Ocp-Apim-Subscription-Key",
subscriptionKey);

var request = new
    var request = new RotorCalculationPerformanceRequest()
    {

        PurgeSectorPosition = PurgeSectorPosition.NoPurgeSector,   //
"NoPurgeSector"
        SealsType = RotorSealsType.StandardSeals,   // "StandardSeals"
        Material = 0,   // "Aluminium"
        OuterDiameter = 1.3,
        RotationalSpeed = 12,
        WellHeight = 0.002,
        RotorDepth = 0.2,
        ShadowFactor = 0.0,
        WheelModel = WheelType.ModelOAndE,   // "ModelOAndE"
        CasingModel = CasingType.NoCasing,   // "ModelE_ES_EQ"
        ExhaustMassFlow = 1.0,
        ExhaustPressure = 0,
        ExhaustTemperature = 20,
        ExhaustMoisture = 0.0057,
        SupplyMassFlow = 1.67,
        SupplyPressure = 0,
        SupplyTemperature = 4,
        SupplyMoisture = 0.0017,
        DifferentialPressure = 250,
        InletAirPressure = 101325,
        Season = 0

    };

   var response = await client.PostAsJsonAsync(
    "/api/HeatexExchangerCalculationApi/rotary/calculate-performance",
    request);

if (response.IsSuccessStatusCode)
{
    var result = await response.Content.ReadAsStringAsync();
    Console.WriteLine(result);
}
```

Available Endpoints

Endpoint	Method	Description
`/api/HeatexExchanger-CalculationApi/rotary/calculate-performance`	POST	Calculate rotor heat exchanger performance
`/api/HeatexExchanger-CalculationApi/rotary/calculate-price`	POST	Calculate rotor heat exchanger price
`/api/HeatexExchanger-CalculationApi/plate/calculate-performance`	POST	Calculate plate heat exchanger performance
`/api/HeatexExchanger-CalculationApi/plate/calculate-price`	POST	Calculate plate heat exchanger price

Troubleshooting

Error	Cause	Solution
`401 Unauthorized`	Missing or invalid subscription key	Verify your `Ocp-Apim-Subscription-Key` header
`403 Forbidden`	Subscription not active	Check your subscription status in the developer portal
`404 Not Found`	Incorrect endpoint URL	Verify the API endpoint path
`400 Bad Request`	Invalid request body	Check your JSON payload matches the expected schema

Need Help?

For technical support or questions about the API, please contact:

Email: info@heatex.com